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OM protein - protein search, using sw model

Run on: September 15, 2004, 14:30:49 ; Search time 9.13305 Seconds

(without alignments)  
667.149 Million cell updates/sec

Title: US-10-000-039A-3

Perfect score: 103

Sequence: 1 DPEFTEPVPNLSICKSPDS 19

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1335176 seqs, 320689617 residues

Total number of hits satisfying chosen parameters: 1335176

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA.\*  
1: /cgn2\_6/ptodata/2/pubpaa/US07\_PUBCOMB.pep.\*  
2: /cgn2\_6/ptodata/2/pubpaa/PCT\_NEW\_PUB.pep.\*  
3: /cgn2\_6/ptodata/2/pubpaa/US06\_NEW\_PUB.pep.\*  
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5: /cgn2\_6/ptodata/2/pubpaa/US07\_NEW\_PUB.pep.\*  
6: /cgn2\_6/ptodata/2/pubpaa/PCTUS\_PUBCOMB.pep.\*  
7: /cgn2\_6/ptodata/2/pubpaa/US08\_NEW\_PUB.pep.\*  
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11: /cgn2\_6/ptodata/2/pubpaa/US09C\_PUBCOMB.pep.\*  
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13: /cgn2\_6/ptodata/2/pubpaa/US10A\_PUBCOMB.pep.\*  
14: /cgn2\_6/ptodata/2/pubpaa/US10B\_PUBCOMB.pep.\*  
15: /cgn2\_6/ptodata/2/pubpaa/US10C\_PUBCOMB.pep.\*  
16: /cgn2\_6/ptodata/2/pubpaa/US10D\_NEW\_PUB.pep.\*  
17: /cgn2\_6/ptodata/2/pubpaa/US60\_NEW\_PUB.pep.\*  
18: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	103	100.0	19	14	US-10-000-039-3
2	103	100.0	340	12	US-10-217-155A-17
3	103	100.0	340	15	US-10-217-574-17
4	103	100.0	340	15	US-10-217-555-17
5	103	100.0	388	15	US-10-131-410-104
6	103	100.0	407	14	US-10-067-977-4
7	103	100.0	431	9	US-09-810-808-5
8	103	100.0	431	9	US-09-981-353-7
9	103	100.0	431	12	US-10-403-161-2
10	103	100.0	431	12	US-10-403-161-4
11	103	100.0	431	15	US-10-000-039-2
12	103	100.0	431	15	US-10-353-690-12
13	103	100.0	445	14	US-10-067-977-2
14	103	100.0	526	15	US-10-094-749-1861
15	95	92.2	430	9	US-09-810-808-9

16	64	62.1	367	9	US-09-971-118-2	Sequence 2, Appl1
17	64	62.1	367	12	US-10-221-278-256	Sequence 256, App
18	64	62.1	367	12	US-10-380-235-6	Sequence 6, Appl1
19	64	62.1	367	15	US-10-291-172-256	Sequence 256, Appl
20	64	62.1	367	16	US-10-429-160-52	Sequence 52, Appl1
21	64	62.1	367	12	US-10-296-115-1109	Sequence 1109, App
22	64	62.1	367	12	US-10-262-511-140	Sequence 140, App
23	64	62.1	287	16	US-10-188-833-167	Sequence 167, App
24	46	44.7	63	9	US-10-767-701-50841	Sequence 50841, A
25	46	44.7	93	16	US-09-925-300-1638	Sequence 1638, App
26	46	44.7	142	10	US-09-764-891-3889	Sequence 3889, App
27	46	44.7	403	14	US-10-032-585-7081	Sequence 7081, App
28	46	44.7	506	15	US-10-369-493-2253	Sequence 2253, App
29	45.5	44.2	632	15	US-10-108-260A-3548	Sequence 3548, App
30	45.5	44.2	1491	12	US-10-432-613-2	Sequence 2, Appl1
31	45	43.7	90	16	US-10-437-963-177567	Sequence 177567, App
32	45	43.7	93	16	US-10-437-963-111065	Sequence 111065, A
33	45	43.7	663	12	US-10-282-122A-52415	Sequence 52415, A
34	45	43.7	709	16	US-10-437-963-186725	Sequence 186725, A
35	45	43.7	789	12	US-10-282-1122A-51312	Sequence 51312, App
36	45	43.7	924	16	US-10-437-963-153273	Sequence 153273, A
37	45	43.7	143	16	US-10-767-701-56231	Sequence 56231, A
38	44	42.7	194	9	US-09-784-249-4	Sequence 4, Appl1
39	44	42.7	429	15	US-10-295-027-116	Sequence 116, App
40	44	42.7	481	14	US-10-080-170-14	Sequence 14, Appl
41	44	42.7	481	16	US-10-080-170-14	Sequence 14, Appl
42	44	42.7	496	9	US-09-784-249-2	Sequence 2, Appl1
43	44	42.7	496	11	US-09-764-875-746	Sequence 746, App
44	44	42.7	496	11	US-09-764-875-900	Sequence 900, App
45						

## ALIGNMENTS

RESULT 1  
US-10-000-039-3  
; Sequence 3, Application US//10000039  
; Publication No. US20030003559A1  
GENERAL INFORMATION:  
APPLICANT: LANG, Florian  
TITLE OF INVENTION: CELL VOLUME-REGULATED HUMAN KINASE H-SGK  
NUMBER OF SEQUENCES: 4  
CORRESPONDENCE ADDRESS:  
ADDRESSER: POLRY & LARDNER  
STREET: 3000 K Street, N.W.  
CITY: Washington  
STATE: D.C.  
COUNTRY: U.S.A.  
ZIP: 20007-5109  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/000, 039  
FILING DATE: 04-Dec-2001  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/09/031,295  
FILING DATE: 26-FEB-1998  
APPLICATION NUMBER: DE 197-08-173.8  
FILING DATE: 28-FEB-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Sandercock, Colin G.  
REGISTRATION NUMBER: 31,298  
REFERENCE/DOCKET NUMBER: 058315/0123  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 672-5300  
TELEFAX: (202) 672-5399  
INFORMATION FOR SEQ ID NO: 3:

SEQUENCE CHARACTERISTICS:  
LENGTH: 19 amino acids  
TYPE: amino acid  
STRANDEDNESS: <Unknown>  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
SEQUENCE DESCRIPTION: SEQ ID NO: 3:  
US-10-000-039-3

Query Match 100.0%; Score 103; DB 14; Length 19;  
Best Local Similarity 100.0%; Pred. No. 1.9e-08;  
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DPEFTEPVNSIGKSPDS 19  
DB 1 DPEFTEPVNSIGKSPDS 19

RESULT 2  
US-10-217-155A-17  
; Sequence 17, Application US/10217155A  
; Publication No. US20030065855A1  
; GENERAL INFORMATION:  
; APPLICANT: Barford, David  
; APPLICANT: Yang, Jing  
; APPLICANT: Hemmings, Brian A  
; APPLICANT: Cron, Peter D  
; TITLE OF INVENTION: Kinase Crystal Structures and Materials and Methods for  
; TITLE OF INVENTION: Kinase Activation  
; FILE REFERENCE: 44236  
; CURRENT APPLICATION NUMBER: US/10/217,155A  
; CURRENT FILING DATE: 2002-08-14  
; PRIOR APPLICATION NUMBER: GB 0119860.5  
; PRIOR FILING DATE: 2001-08-14  
; PRIOR APPLICATION NUMBER: GB 0209985.1  
; PRIOR FILING DATE: 2002-05-01  
; NUMBER OF SEQ ID NOS: 40  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 17  
; LENGTH: 340  
; TYPE: PRT  
; ORGANISM: Unknown Organism  
; FEATURE:  
; OTHER INFORMATION: Description of Unknown Organism: Sequence source  
; OTHER INFORMATION: uncertain  
US-10-217-155A-17

Query Match 100.0%; Score 103; DB 12; Length 340;  
Best Local Similarity 100.0%; Pred. No. 4.5e-07;  
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DPEFTEPVNSIGKSPDS 19  
DB 295 DPEFTEPVNSIGKSPDS 313

RESULT 3  
US-10-217-574-17  
; Sequence 17, Application US/10217574  
; Publication No. US20040005687A1  
; GENERAL INFORMATION:  
; APPLICANT: Barford, David  
; APPLICANT: Yang, Jing  
; APPLICANT: Hemmings, Brian A  
; APPLICANT: Cron, Peter D  
; TITLE OF INVENTION: Kinase Crystal Structures  
; TITLE REFERENCE: 44237  
; CURRENT APPLICATION NUMBER: US/10/217,574  
; CURRENT FILING DATE: 2002-12-23  
; PRIOR APPLICATION NUMBER: GB 0119860.5  
; PRIOR FILING DATE: 2001-08-14  
; PRIOR APPLICATION NUMBER: GB 0209985.1  
; PRIOR FILING DATE: 2002-05-01

; PRIOR APPLICATION NUMBER: GB 0216215.4  
; PRIOR FILING DATE: 2002-07-12  
; NUMBER OF SEQ ID NOS: 46  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 17  
; LENGTH: 340  
; TYPE: PRT  
; ORGANISM: Unknown Organism  
; FEATURE:  
; OTHER INFORMATION: Description of Unknown Organism: Sequence source  
; OTHER INFORMATION: uncertain  
US-10-217-574-17

Query Match 100.0%; Score 103; DB 15; Length 340;  
Best Local Similarity 100.0%; Pred. No. 4.5e-07;  
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DPEFTEPVNSIGKSPDS 19  
DB 295 DPEFTEPVNSIGKSPDS 313

RESULT 4  
US-10-217-555-17  
; Sequence 17, Application US/10217555  
; Publication No. US20040009569A1  
; GENERAL INFORMATION:  
; APPLICANT: Barford, David  
; APPLICANT: Yang, Jing  
; APPLICANT: Hemmings, Brian A  
; APPLICANT: Cron, Peter D  
; TITLE OF INVENTION: Kinase Crystal Structures and Materials and Methods for  
; TITLE OF INVENTION: Kinase Activation  
; FILE REFERENCE: 44236  
; CURRENT APPLICATION NUMBER: US/10/217,555  
; CURRENT FILING DATE: 2002-12-05  
; PRIOR APPLICATION NUMBER: GB 0119860.5  
; PRIOR FILING DATE: 2001-08-14  
; PRIOR APPLICATION NUMBER: GB 0209985.1  
; PRIOR FILING DATE: 2002-05-01  
; NUMBER OF SEQ ID NOS: 40  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 17  
; LENGTH: 340  
; TYPE: PRT  
; ORGANISM: Unknown Organism  
; FEATURE:  
; OTHER INFORMATION: Description of Unknown Organism: Sequence source  
; OTHER INFORMATION: uncertain  
US-10-217-555-17

Query Match 100.0%; Score 103; DB 15; Length 340;  
Best Local Similarity 100.0%; Pred. No. 4.5e-07;  
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DPEFTEPVNSIGKSPDS 19  
DB 295 DPEFTEPVNSIGKSPDS 313

RESULT 5  
US-10-131-410-104  
; Sequence 104, Application US/10131410  
; Publication No. US20030235915A1  
; GENERAL INFORMATION:  
; APPLICANT: SPECHT, THOMAS  
; APPLICANT: HINZMANN, BERND  
; APPLICANT: SCHMITT, ARMIN  
; APPLICANT: PILARSKY, CHRISTIAN  
; APPLICANT: DAHL, EDGAR  
; APPLICANT: ROSENTHAL, ANDRE  
; TITLE OF INVENTION: HUMAN NUCLEIC ACID SEQUENCES FROM TISSUE OF BREAST  
; TITLE OF INVENTION: TUMORS

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/ FILE REFERENCE: SCH-1763
/ CURRENT APPLICATION NUMBER: US/10/131,410
/ CURRENT FILING DATE: 2002-04-25
/ PRIOR APPLICATION NUMBER: 09/646,673
/ PRIOR FILING DATE: 2000-09-20
/ PRIOR APPLICATION NUMBER: PCT/DE99/00908
/ PRIOR FILING DATE: 1999-03-19
/ NUMBER OF SEQ ID NOS: 202
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 104
/ LENGTH: 388
/ TYPE: PRT
/ ORGANISM: Homo sapiens
/ US-10-131-410-104

Query Match
Best Local Similarity 100.0%; Score 103; DB 15; Length 388;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DPEFTEPVPNSIGKSPDS 19
Db 343 DPEFTEPVPNSIGKSPDS 361

RESULT 6
US-10-067-977-4
/ Sequence 4, Application US/10067977
/ Publication No. US20030157679A1
/ GENERAL INFORMATION:
/ APPLICANT: YAN, Chunhua and KE, Zhaoxi
/ TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
/ TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
/ FILE REFERENCE: CL001313
/ CURRENT APPLICATION NUMBER: US/10/067,977
/ CURRENT FILING DATE: 2002-02-08
/ NUMBER OF SEQ ID NOS: 4
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 4
/ LENGTH: 407
/ TYPE: PRT
/ ORGANISM: Homo sapiens
/ US-10-067-977-4

Query Match
Best Local Similarity 100.0%; Score 103; DB 14; Length 407;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DPEFTEPVPNSIGKSPDS 19
Db 362 DPEFTEPVPNSIGKSPDS 380

RESULT 7
US-09-810-808-5
/ Sequence 5, Application US/09810808
/ Patent No. US20020042114A1
/ GENERAL INFORMATION:
/ APPLICANT: Au-Young, Janice
/ APPLICANT: Guegler, Karl J.
/ APPLICANT: Hawkins, Phillip R.
/ TITLE OF INVENTION: NOVEL HUMAN PROTEIN KINASES
/ NUMBER OF SEQUENCES: 9
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Incyte Pharmaceuticals, Inc.
/ STREET: 3174 Porter Drive
/ CITY: Palo Alto
/ STATE: CA
/ COUNTRY: U.S.
/ ZIP: 94304
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Diskette
/ COMPUTER: IBM Compatible
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/ OPERATING SYSTEM: DOS
/ SOFTWARE: FastSeq Version 1.5
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/09/810,808
/ FILING DATE: 15-Mar-2001
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 09/541,228
/ FILING DATE: <Unknown>
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Billings, Lucy J
/ REGISTRATION NUMBER: 36,749
/ REFERENCE/DOCKET NUMBER: PF-0118 US
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 415-855-0555
/ TELEFAX: 415-845-4166
/ INFORMATION FOR SEQ ID NO: 5:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 431 amino acids
/ TYPE: amino acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: peptide
/ IMMEDIATE SOURCE:
/ LIBRARY: <Unknown>
/ CLONE: Consensus
/ US-09-810-808-5

Query Match
Best Local Similarity 100.0%; Score 103; DB 9; Length 431;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DPEFTEPVPNSIGKSPDS 19
Db 386 DPEFTEPVPNSIGKSPDS 404

RESULT 8
US-09-981-353-7
/ Sequence 7, Application US/09981353
/ Patent No. US20020160382A1
/ GENERAL INFORMATION:
/ APPLICANT: Lasek, Amy W.
/ APPLICANT: Jones, David A.
/ TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER
/ FILE REFERENCE: PA-0038 US
/ CURRENT APPLICATION NUMBER: US/09/981,353
/ CURRENT FILING DATE: 2001-10-11
/ NUMBER OF SEQ ID NOS: 194
/ SOFTWARE: PERL Program
/ SEQ ID NO 7
/ LENGTH: 431
/ TYPE: PRT
/ ORGANISM: Homo sapiens
/ FEATURE:
/ NAME/KEY: misc feature
/ OTHER INFORMATION: Incyte ID NO. US20020160382A1 3819039CD1
/ US-09-981-353-7

Query Match
Best Local Similarity 100.0%; Score 103; DB 9; Length 431;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DPEFTEPVPNSIGKSPDS 19
Db 386 DPEFTEPVPNSIGKSPDS 404

RESULT 9
US-10-403-161-2
/ Sequence 2, Application US/10403161
/ Publication No. US20040043930A1
/ GENERAL INFORMATION:
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; APPLICANT: Anderson, David et al.
; TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME
; FILE REFERENCE: 21402-573C
; CURRENT APPLICATION NUMBER: US/10/403,161
; CURRENT FILING DATE: 2003-03-31
; PRIOR APPLICATION NUMBER: 60/370349
; PRIOR FILING DATE: 2002-04-05
; PRIOR APPLICATION NUMBER: 60/384543
; PRIOR FILING DATE: 2002-05-30
; PRIOR APPLICATION NUMBER: 60/370969
; PRIOR FILING DATE: 2002-04-08
; PRIOR APPLICATION NUMBER: 60/403748
; PRIOR FILING DATE: 2002-08-15
; PRIOR APPLICATION NUMBER: 60/372019
; PRIOR FILING DATE: 2002-04-12
; PRIOR APPLICATION NUMBER: 60/374379
; PRIOR FILING DATE: 2002-04-22
; PRIOR APPLICATION NUMBER: 09/779679
; PRIOR FILING DATE: 2001-02-08
; PRIOR APPLICATION NUMBER: 60/181045
; PRIOR FILING DATE: 2000-02-08
; PRIOR APPLICATION NUMBER: 10/055877
; PRIOR FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: 60/262892
; PRIOR FILING DATE: 2001-01-19
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 173
; SOFTWARE: CuroSeqList version 0.1
; SEQ ID NO 2
; LENGTH: 431
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-403-161-2

Query Match      100.0%; Score 103; DB 12; Length 431;
Best Local Similarity 100.0%; Pred. No. 5.8e-07;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 DPEFTPEVPNSIGKSPDS 19
DB      386 DPEFTPEVPNSIGKSPDS 404

RESULT 10
US-10-403-161-4
; Sequence 4, Application US/10403161
; Publication No. US20040043930A1
; GENERAL INFORMATION:
; APPLICANT: Anderson, David et al.
; TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME
; FILE REFERENCE: 21402-573C
; CURRENT APPLICATION NUMBER: US/10/403,161
; CURRENT FILING DATE: 2003-03-31
; PRIOR APPLICATION NUMBER: 60/370349
; PRIOR FILING DATE: 2002-04-05
; PRIOR APPLICATION NUMBER: 60/384543
; PRIOR FILING DATE: 2002-05-30
; PRIOR APPLICATION NUMBER: 60/370969
; PRIOR FILING DATE: 2002-04-08
; PRIOR APPLICATION NUMBER: 60/403748
; PRIOR FILING DATE: 2002-08-15
; PRIOR APPLICATION NUMBER: 60/372019
; PRIOR FILING DATE: 2002-04-12
; PRIOR APPLICATION NUMBER: 60/374379
; PRIOR FILING DATE: 2002-04-22
; PRIOR APPLICATION NUMBER: 09/779679
; PRIOR FILING DATE: 2001-02-08
; PRIOR APPLICATION NUMBER: 60/181045
; PRIOR FILING DATE: 2000-02-08
; PRIOR APPLICATION NUMBER: 10/055877
; PRIOR FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: 60/262892
; PRIOR FILING DATE: 2001-01-19
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; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 173
; SOFTWARE: CuroSeqList version 0.1
; SEQ ID NO 4
; LENGTH: 431
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-403-161-4

Query Match      100.0%; Score 103; DB 12; Length 431;
Best Local Similarity 100.0%; Pred. No. 5.8e-07;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 DPEFTPEVPNSIGKSPDS 19
DB      386 DPEFTPEVPNSIGKSPDS 404

RESULT 11
US-10-000-039-2
; Sequence 2, Application US/10000039
; Publication No. US20030003559A1
; GENERAL INFORMATION:
; APPLICANT: LANG, Florian
; TITLE OF INVENTION: CELL VOLUME-REGULATED HUMAN KINASE H-SGK
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FOLEY & LARDNER
; STREET: 3000 K Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20007-5109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/000,039
; FILING DATE: 04-Dec-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/031,295
; FILING DATE: 26-FEB-1998
; APPLICATION NUMBER: DE 197-08-173.8
; FILING DATE: 28-FEB-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Sandercock, Colin G.
; REGISTRATION NUMBER: 31,298
; REFERENCE/DOCKET NUMBER: 058315/0123
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 672-5300
; TELEFAX: (202) 672-5399
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 431 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULAR TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-10-000-039-2

Query Match      100.0%; Score 103; DB 14; Length 431;
Best Local Similarity 100.0%; Pred. No. 5.8e-07;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 DPEFTPEVPNSIGKSPDS 19
DB      386 DPEFTPEVPNSIGKSPDS 404
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RESULT 12
US-10-353-690-12
; Sequence 12, Application US/10353690
; Publication No. US20030215840A1
; GENERAL INFORMATION:
; APPLICANT: Logan, Thomas Joseph
; APPLICANT: Chun, Miyoung
; APPLICANT: Galvin, Katherine M.
; APPLICANT: Healy, Aileen
; APPLICANT: Accon, Susan L.
; APPLICANT: Donoghue, Mary
; APPLICANT: Stagliano, Nancy
; APPLICANT: Perodin, Jacqueline
; APPLICANT: Rodriguez-Way, Amelie
; TITLE OF INVENTION: Methods and compositions for treating
; TITLE OF INVENTION: cardiovascular disease using 1692, 6169, 6193, 7771, 14395,
; TITLE OF INVENTION: 29002, 33216, 43726, 69292, 26156, 32427, 2402, 7747, 1720,
; TITLE OF INVENTION: 9151, 60491, 1371, 7077, 33207, 1419, 18036, 16105, 38650,
; TITLE OF INVENTION: 14245, 58848, 1870, 25856, 32394, 3484, 345, 9252, 9135,
; TITLE OF INVENTION: 10532, 18610, 8165, 2448, 2445, 64624, 84237, 8912, 2868,
; TITLE OF INVENTION: 283, 2554, 9464, 17799, 26686, 43848, 32135, 12208, 2914,
; TITLE OF INVENTION: 51130, 19489, 21833, 2917, 59590, 15992, 2094, 2252, 3474,
; TITLE OF INVENTION: 9792, 15400, 1452 or 6585 molecules
; FILE REFERENCE: MPI02-018P1R0M0N1M
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: US/10/353,690
; PRIOR APPLICATION NUMBER: 60/353,224
; PRIOR FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: 60/354,539
; PRIOR FILING DATE: 2002-03-15
; PRIOR APPLICATION NUMBER: 60/373,861
; PRIOR FILING DATE: 2002-04-19
; PRIOR APPLICATION NUMBER: 60/376,287
; PRIOR FILING DATE: 2002-04-29
; PRIOR APPLICATION NUMBER: 60/388,080
; PRIOR FILING DATE: 2002-06-12
; PRIOR APPLICATION NUMBER: 60/390,971
; PRIOR FILING DATE: 2002-06-24
; PRIOR APPLICATION NUMBER: 60/394,130
; PRIOR FILING DATE: 2002-07-03
; PRIOR APPLICATION NUMBER: 60/394,797
; PRIOR FILING DATE: 2002-07-10
; PRIOR APPLICATION NUMBER: 60/404,904
; PRIOR FILING DATE: 2002-08-21
; PRIOR APPLICATION NUMBER: 60/405,450
; PRIOR FILING DATE: 2002-08-23
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 126
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 431
; TYPE: PRT
; ORGANISM: Homo Sapiens
US-10-353-690-12

Query Match      100.0%; Score 103; DB 15; Length 421;
Best Local Similarity 100.0%; Pred. No. 5,8e-07;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 DPEFTPEVPVNSIGKSPDS 19
      |||||
Db      386 DPEFTPEVPVNSIGKSPDS 404

RESULT 13
US-10-067-977-2
; Sequence 2, Application US/10067977
; Publication No. US20030157679A1
; GENERAL INFORMATION:
; APPLICANT: YAN, Chunhua and KE, Zhaoxi
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; TITLE OF INVENTION: THEREOF
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FILE REFERENCE: CL001313
; CURRENT APPLICATION NUMBER: US/10/067,977
; CURRENT FILING DATE: 2002-02-08
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 445
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-067-977-2

Query Match      100.0%; Score 103; DB 14; Length 445;
Best Local Similarity 100.0%; Pred. No. 6e-07;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 DPEFTPEVPVNSIGKSPDS 19
      |||||
Db      400 DPEFTPEVPVNSIGKSPDS 418

RESULT 14
US-10-094-749-1861
; Sequence 1861, Application US/10094749
; Publication No. US20030219741A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, KYOTARO
; APPLICANT: YAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHICO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTOMYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: NOVEL FULL-LENGTH CDNA
; FILE REFERENCE: 084335/0160
; CURRENT APPLICATION NUMBER: US/10/094,749
; CURRENT FILING DATE: 2002-03-12
; PRIOR APPLICATION NUMBER: 60/350,435
; PRIOR FILING DATE: 2002-01-24
; PRIOR APPLICATION NUMBER: JP 2001-328381
; PRIOR FILING DATE: 2001-09-14
; NUMBER OF SEQ ID NOS: 3381
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1861
; LENGTH: 526
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-094-749-1861

Query Match      100.0%; Score 103; DB 15; Length 526;
Best Local Similarity 100.0%; Pred. No. 7,2e-07;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 DPEFTPEVPVNSIGKSPDS 19
      |||||
Db      481 DPEFTPEVPVNSIGKSPDS 499

RESULT 15
US-09-810-808-9
; Sequence 9, Application US/09810808
; Patent No. US20020042114A1
; GENERAL INFORMATION:
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APPLICANT: Au-Young, Janice
          Guegler, Karl J.
          Hawkins, Phillip R.
TITLE OF INVENTION: NOVEL HUMAN PROTEIN KINASES
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: U.S.
ZIP: 94304

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/810,808
FILING DATE: 15-Mar-2001
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/541,228
FILING DATE: <Unknown>

ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PE-0118 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-845-4166

INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 430 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
IMMEDIATE SOURCE:
LIBRARY: GenBank
CLONE: 294637
SEQUENCE DESCRIPTION: SEQ ID NO: 9:
US-09-810-808-9

Query Match      92.2%   Score 95; DB 9; Length 430;
Best Local Similarity 89.5%; Pred. No. 9e-06;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
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Search completed: September 15, 2004, 14:53:14  
Job time : 10.133 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: September 15, 2004, 14:21:54 ; Search time 2.5279 seconds

(without alignments)  
388,027 Million cell updates/sec

Title: US-10-000-039A-3

Sequence: 1 DPEFTPEPVNSIGKSPDS 19

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%  
Listing first 45 summaries

Database :

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2: /cgn2\_6/prodata/2/1aa/5B\_COMB.pep:\*  
3: /cgn2\_6/prodata/2/1aa/5A\_COMB.pep:\*  
4: /cgn2\_6/prodata/2/1aa/5B\_COMB.pep:\*  
5: /cgn2\_6/prodata/2/1aa/CCTUS\_COMB.pep:\*  
6: /cgn2\_6/prodata/2/1aa/backfiles1.pep:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	103	100.0	19	US-09-031-295-3	Sequence 3, Appl
2	103	100.0	431	US-08-712-709-5	Sequence 5, Appl
3	103	100.0	431	US-09-111-444-5	Sequence 5, Appl
4	103	100.0	431	US-09-541-228-5	Sequence 5, Appl
5	103	100.0	431	US-09-031-295-2	Sequence 2, Appl
6	95	92.2	430	US-08-712-709-9	Sequence 9, Appl
7	95	92.2	430	US-09-111-444-9	Sequence 9, Appl
8	95	92.2	430	US-09-541-228-9	Sequence 9, Appl
9	44	42.7	540	US-09-134-001C-4705	Sequence 9, Appl
10	43	41.7	111	US-09-187-859-21	Sequence 4705, Ap
11	43	41.7	111	US-09-839-542B-21	Sequence 21, Appl
12	43	41.7	111	US-09-535-852-21	Sequence 21, Appl
13	43	41.7	498	US-09-489-039A-13576	Sequence 13576, A
14	43	41.7	559	US-08-313-288B-14	Sequence 14, Appl
15	43	41.7	687	US-08-540-804-4	Sequence 4, Appl
16	43	41.7	687	US-08-218-265-4	Sequence 4, Appl
17	43	41.7	687	US-08-521-872-4	Sequence 4, Appl
18	43	41.7	687	US-08-590-399-4	Sequence 4, Appl
19	43	41.7	713	US-08-188-228-62	Sequence 62, Appl
20	43	41.7	713	US-08-332-643-56	Sequence 62, Appl
21	43	41.7	713	US-08-332-643-56	Sequence 56, Appl
22	43	41.7	941	US-07-757-022B-14	Sequence 14, Appl
23	43	41.7	1022	US-07-757-022B-84	Sequence 84, Appl
24	43	41.7	1038	US-07-757-022B-74	Sequence 74, Appl
25	43	41.7	1049	US-07-757-022B-58	Sequence 58, Appl
26	43	41.7	1140	US-07-757-022B-104	Sequence 104, Appl
27	43	41.7	1270	US-07-757-022B-44	Sequence 44, Appl

28	43	41.7	1311	US-07-757-022B-42	Sequence 42, Appl
29	43	41.7	1313	US-07-757-022B-142	Sequence 142, Appl
30	43	41.7	1314	US-07-757-022B-50	Sequence 50, Appl
31	43	41.7	1320	US-07-757-022B-46	Sequence 46, Appl
32	43	41.7	1320	US-07-757-022B-60	Sequence 60, Appl
33	43	41.7	1320	US-10-164-595-58	Sequence 58, Appl
34	43	41.7	1354	US-07-757-022B-48	Sequence 48, Appl
35	43	41.7	1361	US-07-757-022B-40	Sequence 40, Appl
36	43	41.7	1363	US-07-757-022B-52	Sequence 52, Appl
37	43	41.7	1404	US-07-757-022B-2	Sequence 2, Appl
38	43	41.7	1404	US-07-757-022B-62	Sequence 62, Appl
39	43	41.7	1404	US-10-164-595-78	Sequence 78, Appl
40	42	40.8	57	US-08-619-542B-39	Sequence 39, Appl
41	42	40.8	176	US-08-619-542B-44	Sequence 44, Appl
42	42	40.8	464	US-08-969-630-5	Sequence 5, Appl
43	42	40.8	548	US-09-107-532A-6627	Sequence 627, Ap
44	42	40.8	1182	US-09-287-354-6	Sequence 6, Appl
45	42	40.8	3052	US-08-557-122A-26	Sequence 26, Appl

#### ALIGNMENTS

RESULT 1  
US-09-031-295-3  
Sequence 3, Application US/09031295  
Patent No. 6326181

GENERAL INFORMATION:

APPLICANT: LANG, Florian

APPLICANT: WALDBERGER, Tubingen

TITLE OF INVENTION: CELL VOLUME-REGULATED HUMAN KINASE H-SGK

NUMBER OF SEQUENCES: 4

CORRESPONDENCE ADDRESS:

ADDRESSER: FOLEY & LARDNER

STREET: 3000 K Street, N.W.

CITY: Washington

STATE: D.C.

COUNTRY: U.S.A.

ZIP: 20007-5109

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/031,295

FILING DATE: 26-FEB-1998

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: DE 197-08-173.8

FILING DATE: 28-FEB-1997

ATTORNEY/AGENT INFORMATION:

NAME: Sendercock, Colin G.

REGISTRATION NUMBER: 31,298

REFERENCE/DOCKET NUMBER: 058315/0123

TELECOMMUNICATION INFORMATION:

TELEPHONE: (202) 672-5300

TELEFAX: (202) 672-5399

INFORMATION FOR SEQ ID NO: 3:

SEQUENCE CHARACTERISTICS:

LENGTH: 19 amino acids

TYPE: amino acid

STRANDEDNESS:

TOPOLOGY: linear

MOLECULE TYPE: peptide

US-09-031-295-3

Query Match 100.0%; Score 103; DB 4; Length 19;

Best Local Similarity 100.0%; Pred. No. 2.7e-09;

Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 DPEFTPEPVNSIGKSPDS 19  
|||||

DB 1 DPFTPEPVNSIGKSPDS 19

RESULT 2  
US-08-712-709-5  
Sequence 5, Application US/08712709  
Patent No. 5863780

GENERAL INFORMATION:  
APPLICANT: Au-Young, Janice  
APPLICANT: Guegler, Karl J.  
APPLICANT: Hawkins, Phillip R.  
TITLE OF INVENTION: NOVEL HUMAN PROTEIN KINASES  
NUMBER OF SEQUENCES: 9  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Incyte Pharmaceuticals, Inc.  
STREET: 3174 Porter Drive  
CITY: Palo Alto  
STATE: CA  
COUNTRY: U.S.  
ZIP: 94304

COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq Version 1.5  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/712,709  
FILING DATE: Filed Herewith  
ATTORNEY/AGENT INFORMATION:  
NAME: Billings, Lucy J  
REGISTRATION NUMBER: 36,749  
REFERENCE/DOCKET NUMBER: PF-0118 US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-855-0555  
TELEFAX: 415-845-4166  
INFORMATION FOR SEQ ID NO: 5:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 431 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
IMMEDIATE SOURCE:  
LIBRARY:  
CLONE: Consensus  
US-08-712-709-5

Query Match 100.0%; Score 103; DB 2; Length 431;  
Best Local Similarity 100.0%; Pred. No. 8.2e-08;  
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DPFTPEPVNSIGKSPDS 19  
DB 386 DPFTPEPVNSIGKSPDS 404

RESULT 3  
US-09-111-444-5  
Sequence 5, Application US/09111444  
Patent No. 6045792

GENERAL INFORMATION:  
APPLICANT: Au-Young, Janice  
APPLICANT: Guegler, Karl J.  
APPLICANT: Hawkins, Phillip R.  
TITLE OF INVENTION: NOVEL HUMAN PROTEIN KINASES  
NUMBER OF SEQUENCES: 9  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Incyte Pharmaceuticals, Inc.  
STREET: 3174 Porter Drive  
CITY: Palo Alto  
STATE: CA  
COUNTRY: U.S.  
ZIP: 94304

COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq Version 1.5  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/111,444  
FILING DATE:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/712,709  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Billings, Lucy J  
REGISTRATION NUMBER: 36,749  
REFERENCE/DOCKET NUMBER: PF-0118 US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-855-0555  
TELEFAX: 415-845-4166  
INFORMATION FOR SEQ ID NO: 5:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 431 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
IMMEDIATE SOURCE:  
LIBRARY:  
CLONE: Consensus  
US-09-111-444-5

Query Match 100.0%; Score 103; DB 3; Length 431;  
Best Local Similarity 100.0%; Pred. No. 8.2e-08;  
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DPFTPEPVNSIGKSPDS 19  
DB 386 DPFTPEPVNSIGKSPDS 404

RESULT 4  
US-09-541-228-5  
Sequence 5, Application US/09541228  
Patent No. 6232077

GENERAL INFORMATION:  
APPLICANT: Au-Young, Janice  
APPLICANT: Guegler, Karl J.  
APPLICANT: Hawkins, Phillip R.  
TITLE OF INVENTION: NOVEL HUMAN PROTEIN KINASES  
NUMBER OF SEQUENCES: 9  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Incyte Pharmaceuticals, Inc.  
STREET: 3174 Porter Drive  
CITY: Palo Alto  
STATE: CA  
COUNTRY: U.S.  
ZIP: 94304

COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq Version 1.5  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/541,228  
FILING DATE:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/712,709  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Billings, Lucy J  
REGISTRATION NUMBER: 36,749  
REFERENCE/DOCKET NUMBER: PF-0118 US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-855-0555

TELEFAX: 415-845-4166  
; INFORMATION FOR SEQ ID NO: 5:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 431 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; IMMEDIATE SOURCE:  
; LIBRARY:  
; CLONE: Consensus  
US-09-541-228-5

Query Match 100.0%; Score 103; DB 3; length 431;  
Best Local Similarity 100.0%; Pred. No. 8.2e-08;  
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DPEFTEPVNSIGKSPDS 19  
DB 386 DPEFTEPVNSIGKSPDS 404

RESULT 5  
US-09-031-295-2  
; Sequence 2, Application US/09031295  
; Patent No. 6326181  
; GENERAL INFORMATION:  
; APPLICANT: LANG, Florian  
; TITLE OF INVENTION: CELL VOLUME-REGULATED HUMAN KINASE H-SGK  
; NUMBER OF SEQUENCES: 4  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: FOLEY & LARDNER  
; STREET: 3000 K Street, N.W.  
; CITY: Washington  
; STATE: D.C.  
; COUNTRY: U.S.A.  
; ZIP: 20007-5109  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/031,295  
; FILING DATE: 26-FEB-1998  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: DE 197-08-173.8  
; FILING DATE: 28-FEB-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Sandercock, Colin G.  
; REGISTRATION NUMBER: 31,298  
; REFERENCE/DOCKET NUMBER: 058315/0123  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (202) 672-5300  
; TELEFAX: (202) 672-5399  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 431 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-09-031-295-2

Query Match 100.0%; Score 103; DB 4; length 431;  
Best Local Similarity 100.0%; Pred. No. 8.2e-08;  
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DPEFTEPVNSIGKSPDS 19  
DB 386 DPEFTEPVNSIGKSPDS 404

RESULT 6  
US-08-712-709-9  
; Sequence 9, Application US/08712709  
; Patent No. 5863780  
; GENERAL INFORMATION:  
; APPLICANT: Au-Young, Janice  
; APPLICANT: Guegler, Karl J.  
; APPLICANT: Hawkins, Phillip R.  
; TITLE OF INVENTION: NOVEL HUMAN PROTEIN KINASES  
; NUMBER OF SEQUENCES: 9  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Incyte Pharmaceuticals, Inc.  
; STREET: 3174 Porter Drive  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: U.S.  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: PasteSeq Version 1.5  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/712,709  
; FILING DATE: Filed Herewith  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Billings, Lucy J  
; REGISTRATION NUMBER: 36,749  
; REFERENCE/DOCKET NUMBER: Pf-0118 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 415-855-0555  
; TELEFAX: 415-845-4166  
; INFORMATION FOR SEQ ID NO: 9:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 430 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: peptide  
; IMMEDIATE SOURCE:  
; LIBRARY: GenBank  
; CLONE: 294637  
US-08-712-709-9

Query Match 92.2%; Score 95; DB 2; length 430;  
Best Local Similarity 89.5%; Pred. No. 1.3e-06;  
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 DPEFTEPVNSIGKSPDS 19  
DB 385 DPEFTEPVNSIGKSPDS 403

RESULT 7  
US-09-111-444-9  
; Sequence 9, Application US/09111444  
; Patent No. 6045792  
; GENERAL INFORMATION:  
; APPLICANT: Au-Young, Janice  
; APPLICANT: Guegler, Karl J.  
; APPLICANT: Hawkins, Phillip R.  
; TITLE OF INVENTION: NOVEL HUMAN PROTEIN KINASES  
; NUMBER OF SEQUENCES: 9  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Incyte Pharmaceuticals, Inc.  
; STREET: 3174 Porter Drive  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: U.S.  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette

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COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/111,444
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/712,709
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0118 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-845-4166
US-09-111-444-9

Query Match      92.2%; Score 95; DB 3; Length 430;
Best Local Similarity 89.5%; Pred. No. 1.3e-06;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      1 DPEFTEBPVNSIGKSPDS 19
Db      385 DPEFTEBPVNSIGKSPDS 403

RESULT 8
US-09-541-228-9
; Sequence 9, Application US/09541228
; Patent No. 6232077
; GENERAL INFORMATION:
; APPLICANT: Au-Young, Janice
; APPLICANT: Guegler, Karl J.
; APPLICANT: Hawkins, Phillip R.
; TITLE OF INVENTION: NOVEL HUMAN PROTEIN KINASES
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: U.S.
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSEQ Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/541,228
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/712,709
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0118 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 9:
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SEQUENCE CHARACTERISTICS:
LENGTH: 430 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULAR TYPE: peptide
IMMEDIATE SOURCE:
LIBRARY: GenBank
CLONE: 294637
US-09-541-228-9
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Query Match      92.2%; Score 95; DB 3; Length 430;
Best Local Similarity 89.5%; Pred. No. 1.3e-06;
Matches 17; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY      1 DPEFTEBPVNSIGKSPDS 19
Db      385 DPEFTEBPVNSIGKSPDS 403
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RESULT 9
US-09-134-001C-4705
; Sequence 4705, Application US/09134001C
; Patent No. 6380370
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
; FILE REFERENCE: GTC-007
; CURRENT APPLICATION NUMBER: US/09/134,001C
; CURRENT FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/064,964
; PRIOR FILING DATE: 1997-11-08
; PRIOR APPLICATION NUMBER: US 60/055,779
; PRIOR FILING DATE: 1997-08-14
; NUMBER OF SEQ ID NOS: 5674
; SEQ ID NO 4705
; LENGTH: 540
; TYPE: PRT
; ORGANISM: Staphylococcus epidermidis
US-09-134-001C-4705
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Query Match      42.7%; Score 44; DB 4; Length 540;
Best Local Similarity 47.1%; Pred. No. 90;
Matches 8; Conservative 3; Mismatches 6; Indels 0; Gaps 0;
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QY      1 DPEFTEBPVNSIGKSP 17
Db      356 DSEFDEKITEKTESIGKLP 372
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RESULT 10
US-09-187-859-21
; Sequence 21, Application US/09187859A
; Patent No. 6358920
; GENERAL INFORMATION:
; APPLICANT: Gour, Barbara J.
; APPLICANT: Blaschuk, Orest W.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR MODULATING NONCLASSICAL
; FILE REFERENCE: 100086,407C1
; CURRENT APPLICATION NUMBER: US/09/187,859A
; CURRENT FILING DATE: 1998-11-06
; NUMBER OF SEQ ID NOS: 4052
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 21
; LENGTH: 111
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-187-859-21
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Query Match      41.7%; Score 43; DB 4; Length 111;
Best Local Similarity 44.4%; Pred. No. 23;
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Matches      8;  Conservative      2;  Mismatches      8;  Indels      0;  Gaps      0;

Qy      2  PEPTEPVNSICKSPDS 19
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Db      14  PENQROPFRDVGKVVDS 31

RESULT 11
US-09-839-542B-21
; Sequence 21, Application US/09839542B
; Patent No. 6569996
; GENERAL INFORMATION:
; APPLICANT: Blaschuk, Orest W.
; APPLICANT: Symonds, James Matthew
; APPLICANT: Gour, Barbara J.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR MODULATING NONCLASSICAL
; FILE REFERENCE: 100086.407D1
; CURRENT APPLICATION NUMBER: US/09/839,542B
; CURRENT FILING DATE: 2001-04-20
; NUMBER OF SEQ ID NOS: 4052
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 21
; LENGTH: 111
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-839-542B-21

Query Match      41.7%; Score 43; DB 4; Length 111;
Best Local Similarity 44.4%; Pred. No. 23;
Matches      8;  Conservative      2;  Mismatches      8;  Indels      0;  Gaps      0;

Qy      2  PEPTEPVNSICKSPDS 19
      || : || : || : ||
Db      14  PENQROPFRDVGKVVDS 31

RESULT 12
US-09-535-852-21
; Sequence 21, Application US/09535852
; Patent No. 6638911
; GENERAL INFORMATION:
; APPLICANT: Blachuk, Orest W.
; APPLICANT: Symonds, James M.
; APPLICANT: Gour, Barbara J.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR MODULATING
; FILE REFERENCE: 100086.407C6
; CURRENT APPLICATION NUMBER: US/09/535,852
; CURRENT FILING DATE: 2001-05-21
; NUMBER OF SEQ ID NOS: 2009
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 21
; LENGTH: 111
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-535-852-21

Query Match      41.7%; Score 43; DB 4; Length 111;
Best Local Similarity 44.4%; Pred. No. 23;
Matches      8;  Conservative      2;  Mismatches      8;  Indels      0;  Gaps      0;

Qy      2  PEPTEPVNSICKSPDS 19
      || : || : || : ||
Db      14  PENQROPFRDVGKVVDS 31

RESULT 13
US-09-489-039A-13576
; Sequence 13576, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
; APPLICANT: Gary Breton et. al

Matches      9;  Conservative      3;  Mismatches      6;  Indels      2;  Gaps      1;

Qy      1  DPEF--TEEPVNSICKSPD 18
      || : || : || : ||
Db      309  DSEFRSHGEPIEMIGAVPD 328

RESULT 14
US-08-313-288B-14
; Sequence 14, Application US/08313288B
; Patent No. 5750502
; GENERAL INFORMATION:
; APPLICANT: Jessell, Thomas M. and Avihu Klar
; TITLE OF INVENTION: CLONING, EXPRESSION AND USES OF A
; TITLE OF INVENTION: NOVEL SECRETED PROTEIN, F-SPONDIN
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Cooper & Dunham LLP
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/313,288B
; FILING DATE: January 5, 1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: White, John P.
; REGISTRATION NUMBER: 28,678
; REFERENCE/DOCKET NUMBER: 40028-A-PCT-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 278-0400
; TELEFAX: (212) 391-0526
; TELEX:
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 559 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; HYPOTHEICAL: NO
; ANTI-SENSE: NO
US-08-313-288B-14

Query Match      41.7%; Score 43; DB 1; Length 559;
Best Local Similarity 41.2%; Pred. No. 1.3e+02;
Matches      7;  Conservative      6;  Mismatches      4;  Indels      0;  Gaps      0;
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Db 365 PEDSEKEVPSDVPRNPE 361

RESULT 15  
US-08-540-804-4  
; Sequence 4, Application US/08540804  
; Patent No. 5919666  
; GENERAL INFORMATION:  
; APPLICANT: Young, Richard A.  
; APPLICANT: Koleske, Anthony J.  
; APPLICANT: Thompson, Craig M.  
; APPLICANT: Chao, David M.  
; TITLE OF INVENTION: No. 5919666 Factors Which Modify Gene  
; TITLE OF INVENTION: Transcription and Methods of Use Therefor  
; NUMBER OF SEQUENCES: 39  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.  
; STREET: Two Militia Drive  
; CITY: Lexington  
; STATE: Massachusetts  
; COUNTRY: USA  
; ZIP: 02173  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/540,804  
; FILING DATE: 11-OCT-1995  
; CLASSIFICATION: 424  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/521,872  
; FILING DATE: 21-AUG-1995  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/218,265  
; FILING DATE: 25-MAR-1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Granahan, Patricia  
; REGISTRATION NUMBER: 32,227  
; REFERENCE/DOCKET NUMBER: WHI94-03A2  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 617-861-6240  
; TELEFAX: 617-861-9540  
; INFORMATION FOR SEQ ID NO: 4:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 687 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; US-08-540-804-4

Query Match 41.7%; Score 43; DB 2; Length 687;  
Best Local Similarity 53.3%; Pred. No. 1.7e+02;  
Matches 8; Conservative 3; Mismatches 4; Indels 0; Gaps 0;  
QY 5 TERPVNSIGKSPDS 19  
Db 43 SDRPVESAGKADTS 57

Search completed: September 15, 2004, 14:34:13  
Job time : 3.5279 secs



GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: September 15, 2004, 14:30:49 ; Search time 207.176 Seconds  
(without alignments)  
667.149 Million cell updates/sec

Title: US-10-000-039A-2  
Perfect score: 2270  
Sequence: 1 MTWKEAKGTLTYSRMGRM.....KEAAAFIFGSAVPTDSFL 431

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Gapop 10.0 , Gapext 0.5

Searched: 1335176 seqs, 320689617 residues  
Total number of hits satisfying chosen parameters: 1335176

Minimum DB seq length: 0  
Maximum DB seq length: 200000000  
Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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2: /cgn2\_6/ptodata/2/pubpaa/PCT\_NEW\_PUB.pep:\*  
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6: /cgn2\_6/ptodata/2/pubpaa/PCTUS\_PUBCOMB.pep:\*  
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16: /cgn2\_6/ptodata/2/pubpaa/US10C\_PUBCOMB.pep:\*  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2270	100.0	431	US-10-000-039-2	Sequence 2, Appli
2	2270	100.0	431	US-10-353-690-12	Sequence 12, Appli
3	2267	99.9	431	US-09-981-353-7	Sequence 7, Appli
4	2267	99.9	431	US-10-403-161-2	Sequence 4, Appli
5	2267	99.9	431	US-10-403-161-4	Sequence 4, Appli
6	2254	99.3	431	US-09-810-808-5	Sequence 5, Appli
7	2204.5	97.1	430	US-09-810-808-9	Sequence 5, Appli
8	2152	94.8	407	US-10-067-977-4	Sequence 4, Appli
9	2150	94.7	445	US-10-067-977-2	Sequence 4, Appli
10	2148	94.6	526	US-10-094-749-1861	Sequence 1861, Ap
11	2009	88.5	388	US-10-131-410-104	Sequence 104, App
12	1799	79.3	340	US-10-217-155A-17	Sequence 17, Appli
13	1799	79.3	340	US-10-217-574-17	Sequence 17, Appli
14	1799	79.3	340	US-10-217-555-17	Sequence 17, Appli
15	1635	72.0	308	US-10-664-421-85	Sequence 85, Appli

16	1477	65.1	496	9	US-09-784-249-2	Sequence 2, Appli
17	1472	64.8	429	15	US-10-295-027-116	Sequence 116, App
18	1472	64.8	496	11	US-09-764-875-746	Sequence 746, App
19	1472	64.8	496	11	US-09-764-875-900	Sequence 900, App
20	1459	64.3	496	11	US-10-755-889-42	Sequence 42, Appli
21	1409.5	62.1	382	12	US-10-296-115-1109	Sequence 1109, Ap
22	1407	62.0	367	9	US-09-971-118-2	Sequence 2, Appli
23	1407	62.0	367	12	US-10-221-278-256	Sequence 256, App
24	1407	62.0	367	12	US-10-380-235-6	Sequence 6, Appli
25	1407	62.0	367	15	US-10-291-172-256	Sequence 256, App
26	1407	62.0	367	15	US-10-429-160-52	Sequence 52, Appli
27	1236.5	55.4	398	12	US-10-262-511-140	Sequence 140, App
28	1072	47.2	422	15	US-10-369-493-7027	Sequence 7027, Ap
29	964.5	42.5	276	9	US-09-764-868-659	Sequence 659, App
30	964.5	42.5	276	11	US-09-764-875-1176	Sequence 1176, Ap
31	909	40.0	479	9	US-09-771-161A-246	Sequence 246, App
32	909	40.0	479	9	US-09-771-161A-247	Sequence 247, App
33	909	40.0	479	9	US-09-771-161A-248	Sequence 248, App
34	909	40.0	479	12	US-10-217-155A-33	Sequence 33, Appli
35	909	40.0	479	15	US-10-394-322A-3	Sequence 3, Appli
36	909	40.0	479	15	US-10-217-574-33	Sequence 33, Appli
37	909	40.0	479	15	US-10-217-555-33	Sequence 33, Appli
38	905	39.9	465	10	US-09-526-043-2	Sequence 2, Appli
39	905	39.9	465	15	US-10-394-368-2	Sequence 2, Appli
40	905	39.9	465	15	US-10-394-368-12	Sequence 12, Appli
41	903	39.8	454	10	US-09-526-043-17	Sequence 17, Appli
42	885	39.0	321	14	US-10-116-722A-4	Sequence 4, Appli
43	865	38.1	480	16	US-10-713-678-6	Sequence 6, Appli
44	850.5	37.5	726	14	US-10-072-036-71	Sequence 71, Appli
45	850	37.4	480	9	US-09-771-161A-223	Sequence 223, App

ALIGNMENTS

RESULT 1  
US-10-000-039-2  
; Sequence 2, Application US/10000039  
; Publication No. US20030003559A1  
GENERAL INFORMATION:  
APPLICANT: LANG, Florian  
TITLE OF INVENTION: CELL VOLUME-REGULATED HUMAN KINASE H-SGK  
NUMBER OF SEQUENCES: 4  
CORRESPONDENCE ADDRESS:  
ADDRESSER: FOLEY & LARDNER  
STREET: 3000 K Street, N.W.  
CITY: Washington  
STATE: D.C.  
COUNTRY: U.S.A.  
ZIP: 20007-5109  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/000,039  
FILING DATE: 04-Dec-2001  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/09/031,295  
FILING DATE: 26-FEB-1998  
APPLICATION NUMBER: DE 197-08-173.8  
FILING DATE: 28-FEB-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Sandercoc, Colin G.  
REGISTRATION NUMBER: 31,298  
REFERENCE/DOCKET NUMBER: 058315/0123  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 672-5300  
TELEFAX: (202) 672-5399  
INFORMATION FOR SEQ ID NO: 2:

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; SEQUENCE CHARACTERISTICS:
; LENGTH: 431 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-10-000-039-2

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Query Match      100.0%; Score 2270; DB 14; Length 431;
Best Local Similarity 100.0%; Pred. No. 7.7e-177;
Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 MVTYTEAAKGTLYSRMRGVAVLLIAFMKORRMGLNDFIOKIANNSYACKHPVOSTIKI 60
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DB 61 SQQPEELMANNPSPSPSQOINLGPSSNPAKPSDFHFLKVIYIGKSGFGKVLAAHKAE 120
QY 121 EVFYAVKVLQKAILKKKEEKHIMSERNVLLKNVKHPFLVGLHPSFOTADKLYFVLDTYN 180
DB 121 EVFYAVKVLQKAILKKKEEKHIMSERNVLLKNVKHPFLVGLHPSFOTADKLYFVLDTYN 180
QY 181 GSELFYHLQERCFLEPRARFYAAETASALGYLHSHINIVYRDLKPEINILLDSQGHVLT 240
DB 181 GSELFYHLQERCFLEPRARFYAAETASALGYLHSHINIVYRDLKPEINILLDSQGHVLT 240
QY 241 FGLCKENIHNSSTSTFCGTPETLAPEVLAHKOPYDRVDWMCIGAVLYEMLYGLPPFYSR 300
DB 241 FGLCKENIHNSSTSTFCGTPETLAPEVLAHKOPYDRVDWMCIGAVLYEMLYGLPPFYSR 300
QY 301 NTAEWYDNTLNKPLQKPNITNSARHLLEGILLQKDRTKRLGAKDDMEIKSHVFESLIW 360
DB 301 NTAEWYDNTLNKPLQKPNITNSARHLLEGILLQKDRTKRLGAKDDMEIKSHVFESLIW 360
QY 361 DDLINKKITPPPNPNVSGNELRHDPDEFTPEVPNSIGKSPSVLVTA SVKRAAARFLG 420
DB 361 DDLINKKITPPPNPNVSGNELRHDPDEFTPEVPNSIGKSPSVLVTA SVKRAAARFLG 420
QY 421 FSYAPPTDSFL 431
DB 421 FSYAPPTDSFL 431

RESULT 2
US-10-353-690-12
; Sequence 12, Application US/10353690
; Publication No. US20030215840A1
; GENERAL INFORMATION:
; APPLICANT: Logan, Thomas Joseph
; APPLICANT: Chun, Miyoung
; APPLICANT: Healy, Kathleen M.
; APPLICANT: Acton, Susan L.
; APPLICANT: Donoghue, Mary
; APPLICANT: Stagliano, Nancy
; APPLICANT: Perodini, Jacquelin
; APPLICANT: Rodrigue-Way, Amelie
; TITLE OF INVENTION: Methods and compositions for treating
; TITLE OF INVENTION: cardiovascular disease using 1682, 6169, 6193, 7771, 14395,
; TITLE OF INVENTION: 29002, 33216, 43726, 69292, 26156, 32427, 2402, 7747, 1720,
; TITLE OF INVENTION: 9151, 60491, 1371, 7077, 33207, 1419, 18036, 16105, 38650,
; TITLE OF INVENTION: 14245, 58848, 1870, 25856, 33394, 3484, 345, 9252, 9135,
; TITLE OF INVENTION: 10532, 18610, 8165, 2448, 2445, 64624, 84237, 8912, 2868,
; TITLE OF INVENTION: 283, 2554, 9464, 17799, 26686, 43848, 32135, 12208, 2914,
; TITLE OF INVENTION: 51130, 19489, 21833, 2917, 59590, 15992, 2094, 2252, 3474,
; FILE REFERENCE: MP102-018P1R0NM01M
; CURRENT APPLICATION NUMBER: US/10/353,690
; CURRENT FILING DATE: 2003-01-29
; PRIOR APPLICATION NUMBER: 60/353,224
; PRIOR FILING DATE: 2002-02-01

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; PRIOR APPLICATION NUMBER: 60/364,529
; PRIOR FILING DATE: 2002-03-15
; PRIOR APPLICATION NUMBER: 60/373,861
; PRIOR FILING DATE: 2002-04-19
; PRIOR APPLICATION NUMBER: 60/376,287
; PRIOR FILING DATE: 2002-04-29
; PRIOR APPLICATION NUMBER: 60/388,080
; PRIOR FILING DATE: 2002-06-12
; PRIOR APPLICATION NUMBER: 60/390,971
; PRIOR FILING DATE: 2002-06-24
; PRIOR APPLICATION NUMBER: 60/394,130
; PRIOR FILING DATE: 2002-07-03
; PRIOR APPLICATION NUMBER: 60/394,797
; PRIOR FILING DATE: 2002-07-10
; PRIOR APPLICATION NUMBER: 60/404,904
; PRIOR FILING DATE: 2002-08-21
; PRIOR APPLICATION NUMBER: 60/405,450
; PRIOR FILING DATE: 2002-08-23
; Remaining prior Application data removed - See File Wrapper or PAM.
; NUMBER OF SEQ ID NOS: 126
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 431
; TYPE: PRT
; ORGANISM: Homo Sapiens
US-10-353-690-12

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Query Match      100.0%; Score 2270; DB 15; Length 431;
Best Local Similarity 100.0%; Pred. No. 7.7e-177;
Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 61 SQQPEELMANNPSPSPSQOINLGPSSNPAKPSDFHFLKVIYIGKSGFGKVLAAHKAE 120
QY 121 EVFYAVKVLQKAILKKKEEKHIMSERNVLLKNVKHPFLVGLHPSFOTADKLYFVLDTYN 180
DB 121 EVFYAVKVLQKAILKKKEEKHIMSERNVLLKNVKHPFLVGLHPSFOTADKLYFVLDTYN 180
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DB 181 GSELFYHLQERCFLEPRARFYAAETASALGYLHSHINIVYRDLKPEINILLDSQGHVLT 240
QY 241 FGLCKENIHNSSTSTFCGTPETLAPEVLAHKOPYDRVDWMCIGAVLYEMLYGLPPFYSR 300
DB 241 FGLCKENIHNSSTSTFCGTPETLAPEVLAHKOPYDRVDWMCIGAVLYEMLYGLPPFYSR 300
QY 301 NTAEWYDNTLNKPLQKPNITNSARHLLEGILLQKDRTKRLGAKDDMEIKSHVFESLIW 360
DB 301 NTAEWYDNTLNKPLQKPNITNSARHLLEGILLQKDRTKRLGAKDDMEIKSHVFESLIW 360
QY 361 DDLINKKITPPPNPNVSGNELRHDPDEFTPEVPNSIGKSPSVLVTA SVKRAAARFLG 420
DB 361 DDLINKKITPPPNPNVSGNELRHDPDEFTPEVPNSIGKSPSVLVTA SVKRAAARFLG 420
QY 421 FSYAPPTDSFL 431
DB 421 FSYAPPTDSFL 431

RESULT 3
US-09-981-353-7
; Sequence 7, Application US/09981353
; Patent No. US20020160382A1
; GENERAL INFORMATION:
; APPLICANT: Lasek, Amy W.
; APPLICANT: Jones, David A.
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER
; FILE REFERENCE: PA-0038 US

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; CURRENT APPLICATION NUMBER: US/09/981.353
; CURRENT FILING DATE: 2001-10-11
; NUMBER OF SEQ ID NOS: 194
; SOFTWARE: PERL Program
; SEQ ID NO 7
; LENGTH: 431
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20020160382A1 3819039CD1
US-09-981-353-7

Query Match      99.9%; Score 2267; DB 9; Length 431;
Best Local Similarity 99.8%; Pred. No. 1.4e-176;
Matches 430; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTVTEAAKGLTYSRMGMVAIIIAFMKORMGINDFIQKIANNYSACKHEVOSILKI 60
DB 1 MTVTEAAKGLTYSRMGMVAIIIAFMKORMGINDFIQKIANNYSACKHEVOSILKI 60
QY 61 SOPPEELMNNANSPSPSPSQOINIGSSNPHAKSDHFHLKVIKGSFGKVLARHKA 120
DB 61 SOPPEELMNNANSPSPSPSQOINIGSSNPHAKSDHFHLKVIKGSFGKVLARHKA 120
QY 121 EYFYAVKVLQKAIILKKKEKHIMSERVLLKNVGHPLVGHFSPQTADKLYFVLDYIN 180
DB 121 EYFYAVKVLQKAIILKKKEKHIMSERVLLKNVGHPLVGHFSPQTADKLYFVLDYIN 180
QY 181 GSELFYHLORECFLEPRARFYAAETASALGYLHSLNIVYRDILKEPNIILDSQGHITLTD 240
DB 181 GSELFYHLORECFLEPRARFYAAETASALGYLHSLNIVYRDILKEPNIILDSQGHITLTD 240
QY 241 FELCKENIEHNSTSTFCGTPEYLAPEVLAHKOPYRTVDMWCLGAVLYMLYGLPPEYSR 300
DB 241 FELCKENIEHNSTSTFCGTPEYLAPEVLAHKOPYRTVDMWCLGAVLYMLYGLPPEYSR 300
QY 301 NTAEMYDNILNKLPLQKPNITNSARHLEGLQKQRTKLGAKDDPMEIKSHVFSLIYW 360
DB 301 NTAEMYDNILNKLPLQKPNITNSARHLEGLQKQRTKLGAKDDPMEIKSHVFSLIYW 360
QY 361 DDLINKKITPPNPVNSGNELRHFDPEFTPEVPVNSICKSPDSVLTASVKEAAEAFLG 420
DB 361 DDLINKKITPPNPVNSGNELRHFDPEFTPEVPVNSICKSPDSVLTASVKEAAEAFLG 420
QY 421 FSYAPPTDSFL 431
DB 421 FSYAPPTDSFL 431

RESULT 4
US-10-403-161-2
; Sequence 2, Application US/10403161
; Publication No. US20040043930A1
; GENERAL INFORMATION:
; APPLICANT: Anderson, David et al.
; TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME
; FILE REFERENCE: 21402-573C
; CURRENT APPLICATION NUMBER: US/10/403,161
; CURRENT FILING DATE: 2003-03-31
; PRIOR APPLICATION NUMBER: 60/370349
; PRIOR FILING DATE: 2002-04-05
; PRIOR APPLICATION NUMBER: 60/384543
; PRIOR FILING DATE: 2002-05-30
; PRIOR APPLICATION NUMBER: 60/370969
; PRIOR FILING DATE: 2002-04-08
; PRIOR APPLICATION NUMBER: 60/403748
; PRIOR FILING DATE: 2002-08-15
; PRIOR APPLICATION NUMBER: 60/372019
; PRIOR FILING DATE: 2002-04-12
; PRIOR APPLICATION NUMBER: 60/374379
; PRIOR FILING DATE: 2002-04-22
; PRIOR APPLICATION NUMBER: 09/779679
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; PRIOR FILING DATE: 2001-02-08
; PRIOR APPLICATION NUMBER: 60/181045
; PRIOR FILING DATE: 2000-02-08
; PRIOR APPLICATION NUMBER: 10/055877
; PRIOR FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: 60/262892
; PRIOR FILING DATE: 2001-01-19
; Remaining Prior Application data removed - See file Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 173
; SOFTWARE: Cursesqlst version 0.1
; SEQ ID NO 2
; LENGTH: 431
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-403-161-2

Query Match      99.9%; Score 2267; DB 12; Length 431;
Best Local Similarity 99.8%; Pred. No. 1.4e-176;
Matches 430; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTVTEAAKGLTYSRMGMVAIIIAFMKORMGINDFIQKIANNYSACKHEVOSILKI 60
DB 1 MTVTEAAKGLTYSRMGMVAIIIAFMKORMGINDFIQKIANNYSACKHEVOSILKI 60
QY 61 SOPPEELMNNANSPSPSPSQOINIGSSNPHAKSDHFHLKVIKGSFGKVLARHKA 120
DB 61 SOPPEELMNNANSPSPSPSQOINIGSSNPHAKSDHFHLKVIKGSFGKVLARHKA 120
QY 121 EYFYAVKVLQKAIILKKKEKHIMSERVLLKNVGHPLVGHFSPQTADKLYFVLDYIN 180
DB 121 EYFYAVKVLQKAIILKKKEKHIMSERVLLKNVGHPLVGHFSPQTADKLYFVLDYIN 180
QY 181 GSELFYHLORECFLEPRARFYAAETASALGYLHSLNIVYRDILKEPNIILDSQGHITLTD 240
DB 181 GSELFYHLORECFLEPRARFYAAETASALGYLHSLNIVYRDILKEPNIILDSQGHITLTD 240
QY 241 FELCKENIEHNSTSTFCGTPEYLAPEVLAHKOPYRTVDMWCLGAVLYMLYGLPPEYSR 300
DB 241 FELCKENIEHNSTSTFCGTPEYLAPEVLAHKOPYRTVDMWCLGAVLYMLYGLPPEYSR 300
QY 301 NTAEMYDNILNKLPLQKPNITNSARHLEGLQKQRTKLGAKDDPMEIKSHVFSLIYW 360
DB 301 NTAEMYDNILNKLPLQKPNITNSARHLEGLQKQRTKLGAKDDPMEIKSHVFSLIYW 360
QY 361 DDLINKKITPPNPVNSGNELRHFDPEFTPEVPVNSICKSPDSVLTASVKEAAEAFLG 420
DB 361 DDLINKKITPPNPVNSGNELRHFDPEFTPEVPVNSICKSPDSVLTASVKEAAEAFLG 420
QY 421 FSYAPPTDSFL 431
DB 421 FSYAPPTDSFL 431

RESULT 5
US-10-403-161-4
; Sequence 4, Application US/10403161
; Publication No. US20040043930A1
; GENERAL INFORMATION:
; APPLICANT: Anderson, David et al.
; TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME
; FILE REFERENCE: 21402-573C
; CURRENT APPLICATION NUMBER: US/10/403,161
; CURRENT FILING DATE: 2003-03-31
; PRIOR APPLICATION NUMBER: 60/370349
; PRIOR FILING DATE: 2002-04-05
; PRIOR APPLICATION NUMBER: 60/384543
; PRIOR FILING DATE: 2002-05-30
; PRIOR APPLICATION NUMBER: 60/370969
; PRIOR FILING DATE: 2002-04-08
; PRIOR APPLICATION NUMBER: 60/403748
; PRIOR FILING DATE: 2002-08-15
; PRIOR APPLICATION NUMBER: 60/372019
; PRIOR FILING DATE: 2002-04-12
; PRIOR APPLICATION NUMBER: 09/779679
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PRIOR APPLICATION NUMBER: 60/374379  
PRIOR FILING DATE: 2002-04-22  
PRIOR APPLICATION NUMBER: 09/779679  
PRIOR FILING DATE: 2001-02-08  
PRIOR APPLICATION NUMBER: 60/181045  
PRIOR FILING DATE: 2000-02-08  
PRIOR APPLICATION NUMBER: 10/055877  
PRIOR FILING DATE: 2002-01-22  
PRIOR APPLICATION NUMBER: 60/262892  
PRIOR FILING DATE: 2001-01-19  
Remaining Prior Application data removed - See File Wrapper or PAM.  
NUMBER OF SEQ ID NOS: 173  
SOFTWARE: Cuiaseq1ist version 0.1  
SEQ ID NO 4  
LENGTH: 431  
TYPE: PR  
ORGANISM: Homo sapiens  
US-10-403-161-4

Query Match 99.9%; Score 2267; DB 12; Length 431;  
Best Local Similarity 99.8%; Pred. No. 1,4e-176;  
Matches 430; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MVTKEAAKGLTLYSRMGVAVLILAFMKQRMGANDFIQKANNSYACKHPEVOSILKI 60  
DB 1 MVTKEAAKGLTLYSRMGVAVLILAFMKQRMGANDFIQKANNSYACKHPEVOSILKI 60  
QY 61 SPOPEELMANANSPSPSPSOQINLGSSNPAKPSDFHFLKVIKIGKSPGVLLAHHKAE 120  
DB 61 SPOPEELMANANSPSPSPSOQINLGSSNPAKPSDFHFLKVIKIGKSPGVLLAHHKAE 120  
QY 121 EYFYAVKVLQKAILKKKEKHIMSERNVLLKNVKHFFLVGLHPSFQTADKLYFVLDYIN 180  
DB 121 EYFYAVKVLQKAILKKKEKHIMSERNVLLKNVKHFFLVGLHPSFQTADKLYFVLDYIN 180  
QY 181 GSELFYHLQRECFLEPRARFYAAETASALGYLHSINIVYRDLKPENILLDSQGHIVLTD 240  
DB 181 GSELFYHLQRECFLEPRARFYAAETASALGYLHSINIVYRDLKPENILLDSQGHIVLTD 240  
QY 241 FGLCKENIHNSSTSTFCGPEYLAPEVILHKOYDRTVDMWCI GAVALYEMLYGLPPFYSR 300  
DB 241 FGLCKENIHNSSTSTFCGPEYLAPEVILHKOYDRTVDMWCI GAVALYEMLYGLPPFYSR 300  
QY 301 NTAEMYDNILNKPIOLKPNITNSARHLLEGLQOKRTKRLGAKDDPMEIKSHVFSILNW 360  
DB 301 NTAEMYDNILNKPIOLKPNITNSARHLLEGLQOKRTKRLGAKDDPMEIKSHVFSILNW 360  
QY 361 DDLINKKITPPNPVNSGPNELRHFDPEFTEEPVNSIGKSPDSVLTASVKEAAEAFLG 420  
DB 361 DDLINKKITPPNPVNSGPNELRHFDPEFTEEPVNSIGKSPDSVLTASVKEAAEAFLG 420  
QY 421 FSYAPPTDSFL 431  
DB 421 FSYAPPTDSFL 431

## RESULT 6

US-09-810-808-5  
Sequence 5, Application US/09810808  
Patent No. US20020042114A1  
GENERAL INFORMATION:  
APPLICANT: Au-Young, Janice  
Guegler, Karl J.  
Hawkins, Phillip R.  
NUMBER OF SEQUENCES: 9  
TITLE OF INVENTION: NOVEL HUMAN PROTEIN KINASES  
CORRESPONDENCE ADDRESS:  
ADDRESSES: Incyte Pharmaceuticals, Inc.  
STREET: 3174 Porter Drive  
CITY: Palo Alto  
STATE: CA  
COUNTRY: U.S.  
ZIP: 94304

COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq Version 1.5  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/810,808  
FILING DATE: 15-Mar-2001  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 09/541,228  
FILING DATE: <Unknown>  
ATTORNEY/AGENT INFORMATION:  
NAME: Billings, Lucy J  
REGISTRATION NUMBER: 36,749  
REFERENCE/DOCKET NUMBER: PP-0118 US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-855-0555  
TELEFAX: 415-845-4166  
INFORMATION FOR SEQ ID NO: 5:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 431 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
IMMEDIATE SOURCE:  
LIBRARY: <Unknown>  
CLONE: Consensus  
SEQUENCE DESCRIPTION: SEQ ID NO: 5:  
US-09-810-808-5

Query Match 99.3%; Score 2254; DB 9; Length 431;  
Best Local Similarity 99.3%; Pred. No. 1,6e-175;  
Matches 428; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 MVTKEAAKGLTLYSRMGVAVLILAFMKQRMGANDFIQKANNSYACKHPEVOSILKI 60  
DB 1 MVTKEAAKGLTLYSRMGVAVLILAFMKQRMGANDFIQKANNSYACKHPEVOSILKI 60  
QY 61 SPOPEELMANANSPSPSPSOQINLGSSNPAKPSDFHFLKVIKIGKSPGVLLAHHKAE 120  
DB 61 SPOPEELMANANSPSPSPSOQINLGSSNPAKPSDFHFLKVIKIGKSPGVLLAHHKAE 120  
QY 121 EYFYAVKVLQKAILKKKEKHIMSERNVLLKNVKHFFLVGLHPSFQTADKLYFVLDYIN 180  
DB 121 EYFYAVKVLQKAILKKKEKHIMSERNVLLKNVKHFFLVGLHPSFQTADKLYFVLDYIN 180  
QY 181 GSELFYHLQRECFLEPRARFYAAETASALGYLHSINIVYRDLKPENILLDSQGHIVLTD 240  
DB 181 GSELFYHLQRECFLEPRARFYAAETASALGYLHSINIVYRDLKPENILLDSQGHIVLTD 240  
QY 241 FGLCKENIHNSSTSTFCGPEYLAPEVILHKOYDRTVDMWCI GAVALYEMLYGLPPFYSR 300  
DB 241 FGLCKENIHNSSTSTFCGPEYLAPEVILHKOYDRTVDMWCI GAVALYEMLYGLPPFYSR 300  
QY 301 NTAEMYDNILNKPIOLKPNITNSARHLLEGLQOKRTKRLGAKDDPMEIKSHVFSILNW 360  
DB 301 NTAEMYDNILNKPIOLKPNITNSARHLLEGLQOKRTKRLGAKDDPMEIKSHVFSILNW 360  
QY 361 DDLINKKITPPNPVNSGPNELRHFDPEFTEEPVNSIGKSPDSVLTASVKEAAEAFLG 420  
DB 361 DDLINKKITPPNPVNSGPNELRHFDPEFTEEPVNSIGKSPDSVLTASVKEAAEAFLG 420  
QY 421 FSYAPPTDSFL 431  
DB 421 FSYAPPTDSFL 431

## RESULT 7

US-09-810-808-9  
Sequence 9, Application US/09810808  
Patent No. US20020042114A1  
GENERAL INFORMATION:

APPLICANT: Au-Young, Janice  
Guegler, Karl J.  
Hawkins, Phillip R.  
TITLE OF INVENTION: NOVEL HUMAN PROTEIN KINASES  
NUMBER OF SEQUENCES: 9  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Incyte Pharmaceuticals, Inc.  
STREET: 3174 Porter Drive  
CITY: Palo Alto  
STATE: CA  
COUNTRY: U.S.  
ZIP: 94304  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq Version 1.5  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/810,808  
FILING DATE: 15-Mar-2001  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 09/541,228  
FILING DATE: <Unknown>  
ATTORNEY/AGENT INFORMATION:  
NAME: Billings, Lucy J  
REGISTRATION NUMBER: 36,749  
REFERENCE/DOCKET NUMBER: PF-0118 US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-855-0555  
TELEFAX: 415-845-4166  
INFORMATION FOR SEQ ID NO: 9:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 430 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
IMMEDIATE SOURCE:  
LIBRARY: GenBank  
CLONE: 294637  
SEQUENCE DESCRIPTION: SEQ ID NO: 9:  
US-09-810-808-9

Query Match 97.1%; Score 2204.5; DB 9; Length 430;  
Best Local Similarity 96.8%; Pred. No. 1.7e-171;  
Matches 417; Conservative 8; Mismatches 5; Indels 1; Gaps 1;

QY 1 MTVKTAAKGLTLYSHRMGVAIIIAFMKQRMGINDFIQKIANNSSACKHEVOSILKI 60  
Db 1 MTVKTAAKGLTLYSHRMGVAIIIAFMKQRMGINDFIQKIANNSSACKHEVOSILKI 60  
QY 61 SOPQBELMNNANPSPSPSQOINLGSSNPFAKPSDFHFLVYIGSGFGKYLAAHKAE 120  
Db 61 SOPQBELMNNANPSPSPSQOINLGSSNPFAKPSDFHFLVYIGSGFGKYLAAHKAE 120  
QY 121 EYFYAVKVLQKAIILKKKEKHIMSEBNVLIKNVKKPFLVGLHFSFQTDKLYFYVDYIN 180  
Db 121 EYFYAVKVLQKAIILKKKEKHIMSEBNVLIKNVKKPFLVGLHFSFQTDKLYFYVDYIN 180  
QY 181 GSELFYHLQRECFLEPRARFYAAIASAIGYIASHINIVYRDIKPENIILDSQGHIVLTD 240  
Db 181 GSELFYHLQRECFLEPRARFYAAIASAIGYIASHINIVYRDIKPENIILDSQGHIVLTD 240  
QY 241 FGICKENIENHNTSTFCGPEYLAPEVHKQPYDRTVDMWCLGAVLYEMLYGLPPFYSR 300  
Db 241 FGICKENIENHNTSTFCGPEYLAPEVHKQPYDRTVDMWCLGAVLYEMLYGLPPFYSR 300  
QY 301 NTAEMTDNINKPLQKPNITNSARHLLEGLOKDRTKRLGAKDDMEIKSHVFSILNW 360  
Db 301 NTAEMTDNINKPLQK-NITNSARHLLEGLOKDRTKRLGAKDDMEIKSHVFSILNW 360  
QY 361 DDINKKTPPPNPVNSGPNELNHFDEFTTEBPVNSIGKSPDSVLVTASVKAAAEAFIG 420  
Db 361 DDINKKTPPPNPVNSGPNELNHFDEFTTEBPVNSIGKSPDSVLVTASVKAAAEAFIG 420

Db 360 DDINKKTPPPNPVNSGPNELNHFDEFTTEBPVNSIGKSPDSVLVTASVKAAAEAFIG 419  
QY 421 FSYAPPTDSFL 431  
Db 420 FSYAPPTDSFL 430

RESULT 8  
US-10-067-977-4  
Sequence 4, Application US/10067977  
Publication No. US20030157679A1  
GENERAL INFORMATION:  
APPLICANT: YAN, Chunhua and KE, Zhaoxi  
TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC  
TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES  
FILE REFERENCE: CL001313  
CURRENT APPLICATION NUMBER: US/10/067,977  
CURRENT FILING DATE: 2002-02-08  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 4  
LENGTH: 407  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-067-977-4

Query Match 94.8%; Score 2152; DB 14; Length 407;  
Best Local Similarity 99.8%; Pred. No. 3.1e-167;  
Matches 406; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 25 IAFMKQRMGINDFIQKIANNSSACKHEVOSILKISOPQBELMNNANPSPSPSQOIN 84  
Db 1 IAFMKQRMGINDFIQKIANNSSACKHEVOSILKISOPQBELMNNANPSPSPSQOIN 60  
QY 85 LGPSSNPFAKPSDFHFLVYIGSGFGKYLAAHKAEVYAVKVLQKAIILKKKEKHIM 144  
Db 61 LGPSSNPFAKPSDFHFLVYIGSGFGKYLAAHKAEVYAVKVLQKAIILKKKEKHIM 120  
QY 145 SERNVLIKNVKKPFLVGLHFSFQTDKLYFYVDYINGSELFYHLQRECFLEPRARFYAA 204  
Db 121 SERNVLIKNVKKPFLVGLHFSFQTDKLYFYVDYINGSELFYHLQRECFLEPRARFYAA 180  
QY 205 EIASALGYLHSLNIVYRDIKPENIILDSQGHIVLTDGICKENIENHNTSTFCGPEYL 264  
Db 181 EIASALGYLHSLNIVYRDIKPENIILDSQGHIVLTDGICKENIENHNTSTFCGPEYL 240  
QY 265 APEVYHKQPYDRTVDMWCLGAVLYEMLYGLPPFYSRNTAEMTDNINKPLQKPNITNSA 324  
Db 241 APEVYHKQPYDRTVDMWCLGAVLYEMLYGLPPFYSRNTAEMTDNINKPLQKPNITNSA 300  
QY 325 RHLLBGLLOKDRTKRLGAKDDMEIKSHVFSILNWDDLINKKTPPPNPVNSGPNELRH 384  
Db 301 RHLLBGLLOKDRTKRLGAKDDMEIKSHVFSILNWDDLINKKTPPPNPVNSGPNELRH 360  
QY 385 FDEFTTEBPVNSIGKSPDSVLVTASVKAAAEAFIGSYAPPTDSFL 431  
Db 361 FDEFTTEBPVNSIGKSPDSVLVTASVKAAAEAFIGSYAPPTDSFL 407

RESULT 9  
US-10-067-977-2  
Sequence 2, Application US/10067977  
Publication No. US20030157679A1  
GENERAL INFORMATION:  
APPLICANT: YAN, Chunhua and KE, Zhaoxi  
TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC  
TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES  
FILE REFERENCE: CL001313  
CURRENT APPLICATION NUMBER: US/10/067,977  
CURRENT FILING DATE: 2002-02-08  
NUMBER OF SEQ ID NOS: 4

SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 2  
LENGTH: 445  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-067-977-2

Query Match 94.7%; Score 2150; DB 14; Length 445;  
Best Local Similarity 99.5%; Pred. No. 5e-167;  
Matches 405; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 25 IAPKQRMGLNDPFIQKIANNSYACKHEVOSIIKISQPOPELMANPSPSPSQOIN 84  
DB 39 IAPKQRMGLNDPFIQKIANNSYACKHEVOSIIKISQPOPELMANPSPSPSQOIN 98  
QY 85 LGSSNPFAKPSDFHFLKVIKGSFGKVLARHKAEEVFAVKYLQKKAIIKKKEKGIM 144  
DB 99 LGSSNPFAKPSDFHFLKVIKGSFGKVLARHKAEEVFAVKYLQKKAIIKKKEKGIM 158  
QY 145 SEENVLLKNVHPELVGLHFSFQTADKLYFVLVYINGGELFYHLQRRCPLEPRARYAA 204  
DB 159 SEENVLLKNVHPELVGLHFSFQTADKLYFVLVYINGGELFYHLQRRCPLEPRARYAA 218  
QY 205 EIASALGYLSLNIIVRDLPENIILDSQGHIVLTDGFCCKENIEHNSITSTFCGPEYL 264  
DB 219 EIASALGYLSLNIIVRDLPENIILDSQGHIVLTDGFCCKENIEHNSITSTFCGPEYL 278  
QY 265 APEVLHKQPYDRIVDWMCIGAVLYEMLYGLPPFYSRNTAEVYDNIINKPLQKKNITNSA 324  
DB 279 APEVLHKQPYDRIVDWMCIGAVLYEMLYGLPPFYSRNTAEVYDNIINKPLQKKNITNSA 338  
QY 325 RHLEGLQKDRTRKRGAKDPMFEEKSHVFFSLINMDLILNKITPPENPVSGPNLRH 384  
DB 339 RHLEGLQKDRTRKRGAKDPMFEEKSHVFFSLINMDLILNKITPPENPVSGPNLRH 398  
QY 385 FDEFTPEEPVNSIGKSPDSVLTASYKEAAEAFLGSYAPPTDSFL 431  
DB 399 FDEFTPEEPVNSIGKSPDSVLTASYKEAAEAFLGSYAPPTDSFL 445

RESULT 10  
US-10-094-749-1861  
Sequence 1861, Application US/10094749  
Publication No. US20030219741A1  
GENERAL INFORMATION:  
APPLICANT: ISOGAI, TAKAO  
APPLICANT: SUGIYAMA, TOMOYASU  
APPLICANT: OTSUKI, TETSUJI  
APPLICANT: WAKAMATSU, AI  
APPLICANT: SATO, HIROYUKI  
APPLICANT: ISHII, SHIZUKO  
APPLICANT: YAMAMOTO, JUN-ICHI  
APPLICANT: ISONO, YUUKO  
APPLICANT: HIO, YURI  
APPLICANT: OTSUKA, KAORU  
APPLICANT: NAGAI, KEIICHI  
APPLICANT: IRIE, RYOICHI  
APPLICANT: TAMECHIKA, ICHIRO  
APPLICANT: SEKI, NAOHIKO  
APPLICANT: YOSHITAKA, TSUTOMU  
APPLICANT: OTSUKA, MOTOYUKI  
APPLICANT: NAGAHARI, KENJI  
APPLICANT: MASUHO, YASUHIKO  
TITLE OF INVENTION: NOVEL FULL-LENGTH cDNA  
FILE REFERENCE: 084335/0160  
CURRENT APPLICATION NUMBER: US/10/094,749  
CURRENT FILING DATE: 2002-03-12  
PRIOR APPLICATION NUMBER: 60/350,435  
PRIOR FILING DATE: 2002-01-24  
PRIOR APPLICATION NUMBER: JP 2001-328381  
PRIOR FILING DATE: 2001-09-14  
NUMBER OF SEQ ID NOS: 3381  
SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 1861  
LENGTH: 526  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-094-749-1861

Query Match 94.6%; Score 2148; DB 15; Length 526;  
Best Local Similarity 99.8%; Pred. No. 9.1e-167;  
Matches 405; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 26 AFMKQRMGLNDPFIQKIANNSYACKHEVOSIIKISQPOPELMANPSPSPSQOINL 85  
DB 121 AFMKQRMGLNDPFIQKIANNSYACKHEVOSIIKISQPOPELMANPSPSPSQOINL 180  
QY 86 GPSSNPFAKPSDFHFLKVIKGSFGKVLARHKAEEVFAVKYLQKKAIIKKKEKGIM 145  
DB 181 GPSSNPFAKPSDFHFLKVIKGSFGKVLARHKAEEVFAVKYLQKKAIIKKKEKGIM 240  
QY 146 EENVLLKNVHPELVGLHFSFQTADKLYFVLVYINGGELFYHLQRRCPLEPRARYAAE 205  
DB 241 EENVLLKNVHPELVGLHFSFQTADKLYFVLVYINGGELFYHLQRRCPLEPRARYAAE 300  
QY 206 IASALGYLSLNIIVRDLPENIILDSQGHIVLTDGFCCKENIEHNSITSTFCGPEYLA 265  
DB 301 IASALGYLSLNIIVRDLPENIILDSQGHIVLTDGFCCKENIEHNSITSTFCGPEYLA 360  
QY 266 PEVLHKQPYDRIVDWMCIGAVLYEMLYGLPPFYSRNTAEVYDNIINKPLQKKNITNSA 325  
DB 361 PEVLHKQPYDRIVDWMCIGAVLYEMLYGLPPFYSRNTAEVYDNIINKPLQKKNITNSA 420  
QY 326 RHLEGLQKDRTRKRGAKDPMFEEKSHVFFSLINMDLILNKITPPENPVSGPNLRH 385  
DB 421 RHLEGLQKDRTRKRGAKDPMFEEKSHVFFSLINMDLILNKITPPENPVSGPNLRH 480  
QY 386 DPEFTPEEPVNSIGKSPDSVLTASYKEAAEAFLGSYAPPTDSFL 431  
DB 481 DPEFTPEEPVNSIGKSPDSVLTASYKEAAEAFLGSYAPPTDSFL 526

RESULT 11  
US-10-131-410-104  
Sequence 104, Application US/10131410  
Publication No. US2003023515A1  
GENERAL INFORMATION:  
APPLICANT: SPECHT, THOMAS  
APPLICANT: HINZMANN, BERND  
APPLICANT: SCHMITT, ARMIN  
APPLICANT: PILARSKY, CHRISTIAN  
APPLICANT: DAHL, EDGAR  
APPLICANT: ROSENTHAL, ANDRE  
TITLE OF INVENTION: HUMAN NUCLEIC ACID SEQUENCES FROM TISSUE OF BREAST  
FILE REFERENCE: SCH-1763  
CURRENT APPLICATION NUMBER: US/10/131,410  
CURRENT FILING DATE: 2002-04-25  
PRIOR APPLICATION NUMBER: 09/646,673  
PRIOR FILING DATE: 2000-09-20  
PRIOR APPLICATION NUMBER: PCT/DE99/00908  
PRIOR FILING DATE: 1999-03-19  
NUMBER OF SEQ ID NOS: 202  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 104  
LENGTH: 388  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-131-410-104

Query Match 88.5%; Score 2009; DB 15; Length 388;  
Best Local Similarity 99.7%; Pred. No. 1.4e-155;  
Matches 379; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 52 EVOSIIKISQPOPELMANPSPSPSQOINLGSSNPFAKPSDFHFLKVIKGSFGK 111  
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Mon Sep 20 13:15:27 2004

us-10-000-039a-2.rapb

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Db      9 PEVQSIILKISQPCPEELMANNPSPSPSQIINLGSSNPHAKSPDFHLKVIGKSGFGK 68
Qy      112 VILARHKAEEVFAVVKVLQOKKAILKKKEKHIMSEENVLLKNVGPFLVGLHFSQJADK 171
Db      69 VILARHKAEEVFAVVKVLQOKKAILKKKEKHIMSEENVLLKNVGPFLVGLHFSQJADK 128
Qy      172 LYPVLADYINGGELFYHLOQRERCFLEPRARFYAAEIASALGYLHSLNIVYRDLKENTILLD 231
Db      129 LYPVLADYINGGELFYHLOQRERCFLEPRARFYAAEIASALGYLHSLNIVYRDLKENTILLD 188
Qy      232 SQGHIVITDFGLCKENIENHSTSTFCGTPEYLAPEVLHKKOPRYRTYDWMCLGAVLYEML 291
Db      189 SQGHIVITDFGLCKENIENHSTSTFCGTPEYLAPEVLHKKOPRYRTYDWMCLGAVLYEML 248
Qy      292 YGLPPFSRNTAEYNDNLNKPLOLKPNTSARHLLEGLOKXDRTKLGAKDPEMEIKS 351
Db      249 YGLPPFSRNTAEYNDNLNKPLOLKPNTSARHLLEGLOKXDRTKLGAKDPEMEIKS 308
Qy      352 HVFSLINWDDLINKKITPPPNPNVSGPNELRHPDEPTEBPVNSIGKSPDSVLTASV 411
Db      309 HVFSLINWDDLINKKITPPPNPNVSGPNELRHPDEPTEBPVNSIGKSPDSVLTASV 368
Qy      412 KEAAEAFLGFSYAPPTDSFL 431
Db      369 KEAAEAFLGFSYAPPTDSFL 388

RESULT 12
US-10-217-155A-17
; Sequence 17, Application US/10217155A
; Publication No. US20030065855A1
; GENERAL INFORMATION:
; APPLICANT: Barford, David
; APPLICANT: Yang, Jing
; APPLICANT: Hemmings, Brian A
; APPLICANT: Cron, Peter D
; TITLE OF INVENTION: Kinase Crystal Structures and Materials and Methods for
; TITLE OF INVENTION: Kinase Activation
; FILE REFERENCE: 44236
; CURRENT APPLICATION NUMBER: US/10/217,155A
; CURRENT FILING DATE: 2002-08-14
; PRIOR APPLICATION NUMBER: GB 0119860.5
; PRIOR FILING DATE: 2001-08-14
; PRIOR APPLICATION NUMBER: GB 0209985.1
; PRIOR FILING DATE: 2002-05-01
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 17
; LENGTH: 340
; TYPE: PRT
; ORGANISM: Unknown Organism
; FEATURE:
; OTHER INFORMATION: Description of Unknown Organism: Sequence source
; OTHER INFORMATION: uncertain
US-10-217-155A-17

Query Match      79.3%; Score 1799; DB 12; Length 340;
Best Local Similarity 99.7%; Pred. No. 1,6e-138;
Matches 339; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy      92 HAKSPDFHLKVIGKSGFGKVLARHKAEEVFAVVKVLQOKKAILKKKEKHIMSEENVLL 151
Db      1 HAKSPDFHLKVIGKSGFGKVLARHKAEEVFAVVKVLQOKKAILKKKEKHIMSEENVLL 60
Qy      152 KNVKEPFLVGLHFSQJADKLYFVLDYINGGELFYHLOQRERCFLEPRARFYAAEIASALG 211
Db      61 KNVKEPFLVGLHFSQJADKLYFVLDYINGGELFYHLOQRERCFLEPRARFYAAEIASALG 120
Qy      212 YLHSLNIVYRDLKENTILLD SQGHIVITDFGLCKENIENHSTSTFCGTPEYLAPEVLHKK 271
Db      121 YLHSLNIVYRDLKENTILLD SQGHIVITDFGLCKENIENHSTSTFCGTPEYLAPEVLHKK 180
Qy      272 QPYDRFTVDMWCLGAVLYEMLYGLPPFSRNTAEYNDNLNKPLOLKPNTSARHLLEG 331
Db      272 QPYDRFTVDMWCLGAVLYEMLYGLPPFSRNTAEYNDNLNKPLOLKPNTSARHLLEG 331
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Db      181 QPYDRFTVDMWCLGAVLYEMLYGLPPFSRNTAEYNDNLNKPLOLKPNTSARHLLEG 240
Qy      332 LOKDRTRKLGAKDDPEMEIKSHVFFSLINWDDLINKKITPPPNPNVSGPNELRHPDEPTE 391
Db      241 LOKDRTRKLGAKDDPEMEIKSHVFFSLINWDDLINKKITPPPNPNVSGPNELRHPDEPTE 300
Qy      392 EPVNSIGKSPDSVLTASVKEAAEAFLGFSYAPPTDSFL 431
Db      301 EPVNSIGKSPDSVLTASVKEAAEAFLGFSYAPPTDSFL 340

RESULT 13
US-10-217-574-17
; Sequence 17, Application US/10217574
; Publication No. US20040005687A1
; GENERAL INFORMATION:
; APPLICANT: Barford, David
; APPLICANT: Yang, Jing
; APPLICANT: Hemmings, Brian A
; APPLICANT: Cron, Peter D
; TITLE OF INVENTION: Kinase Crystal Structures
; FILE REFERENCE: 44237
; CURRENT APPLICATION NUMBER: US/10/217,574
; CURRENT FILING DATE: 2002-12-23
; PRIOR APPLICATION NUMBER: GB 0119860.5
; PRIOR FILING DATE: 2001-08-14
; PRIOR APPLICATION NUMBER: GB 0209985.1
; PRIOR FILING DATE: 2002-05-01
; PRIOR APPLICATION NUMBER: GB 0216215.4
; PRIOR FILING DATE: 2002-07-12
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 17
; LENGTH: 340
; TYPE: PRT
; ORGANISM: Unknown Organism
; FEATURE:
; OTHER INFORMATION: Description of Unknown Organism: Sequence source
; OTHER INFORMATION: uncertain
US-10-217-574-17

Query Match      79.3%; Score 1799; DB 15; Length 340;
Best Local Similarity 99.7%; Pred. No. 1,6e-138;
Matches 339; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy      92 HAKSPDFHLKVIGKSGFGKVLARHKAEEVFAVVKVLQOKKAILKKKEKHIMSEENVLL 151
Db      1 HAKSPDFHLKVIGKSGFGKVLARHKAEEVFAVVKVLQOKKAILKKKEKHIMSEENVLL 60
Qy      152 KNVKEPFLVGLHFSQJADKLYFVLDYINGGELFYHLOQRERCFLEPRARFYAAEIASALG 211
Db      61 KNVKEPFLVGLHFSQJADKLYFVLDYINGGELFYHLOQRERCFLEPRARFYAAEIASALG 120
Qy      212 YLHSLNIVYRDLKENTILLD SQGHIVITDFGLCKENIENHSTSTFCGTPEYLAPEVLHKK 271
Db      121 YLHSLNIVYRDLKENTILLD SQGHIVITDFGLCKENIENHSTSTFCGTPEYLAPEVLHKK 180
Qy      272 QPYDRFTVDMWCLGAVLYEMLYGLPPFSRNTAEYNDNLNKPLOLKPNTSARHLLEG 331
Db      181 QPYDRFTVDMWCLGAVLYEMLYGLPPFSRNTAEYNDNLNKPLOLKPNTSARHLLEG 240
Qy      332 LOKDRTRKLGAKDDPEMEIKSHVFFSLINWDDLINKKITPPPNPNVSGPNELRHPDEPTE 391
Db      241 LOKDRTRKLGAKDDPEMEIKSHVFFSLINWDDLINKKITPPPNPNVSGPNELRHPDEPTE 300
Qy      392 EPVNSIGKSPDSVLTASVKEAAEAFLGFSYAPPTDSFL 431
Db      301 EPVNSIGKSPDSVLTASVKEAAEAFLGFSYAPPTDSFL 340

RESULT 14
US-10-217-555-17
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; Sequence 17, Application US/10217555
; Publication No. US2004009569A1
; GENERAL INFORMATION:
; APPLICANT: Barford, David
; APPLICANT: Yang, Jing
; APPLICANT: Hemmings, Brian A
; APPLICANT: Cron, Peter D
; TITLE OF INVENTION: Kinase Crystal Structures and Methods for
; TITLE OF INVENTION: Kinase Activation
; FILE REFERENCE: 44236
; CURRENT APPLICATION NUMBER: US/10/217,555
; CURRENT FILING DATE: 2002-12-05
; PRIOR APPLICATION NUMBER: GB 0119660.5
; PRIOR FILING DATE: 2001-08-14
; PRIOR APPLICATION NUMBER: GB 0209985.1
; PRIOR FILING DATE: 2002-05-01
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 17
; LENGTH: 340
; TYPE: PRT
; ORGANISM: Unknown Organism
; FEATURE:
; OTHER INFORMATION: Description of Unknown Organism: Sequence source
; OTHER INFORMATION: uncertain
US-10-217-555-17

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Query Match          79.3%; Score 1799; DB 15; Length 340;
Best Local Similarity 99.7%; Pred. No. 1,6e-138;
Matches 339; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

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QY 92 HAKSDHFLKVLGKSGFGKVLARHKAEEVFAVKVLOKKAIIKKKEKHINSERNVLL 151
DB 1 HAKSDHFLKVLGKSGFGKVLARHKAEEVFAVKVLOKKAIIKKKEKHINSERNVLL 60
QY 152 KNVGHPVLGVLHPSFQIADKLIFVLDTYINGSEL.FYHLQRERCFLPRARFYAAEIASALG 211
DB 61 KNVGHPVLGVLHPSFQIADKLIFVLDTYINGSEL.FYHLQRERCFLPRARFYAAEIASALG 120
QY 212 YLHSLNTVYRDLKRENILLDSQGHIVLTDRGLCKENIENHSTSTGCTPEYLAPEVLAHK 271
DB 121 YLHSLNTVYRDLKRENILLDSQGHIVLTDRGLCKENIENHSTSTGCTPEYLAPEVLAHK 180
QY 272 QPYDRTVDMWCLGAVLYEMLYGLPPFYSRNTAEWYDNLINKPLQKKNITNSARHLLGGL 331
DB 181 QPYDRTVDMWCLGAVLYEMLYGLPPFYSRNTAEWYDNLINKPLQKKNITNSARHLLGGL 240
QY 332 LQKDRITRLGAKDDPMEIKSHVFPPLINMDLILNKITPPPNVSGPNELRHFDPEPTE 391
DB 241 LQKDRITRLGAKDDPMEIKSHVFPPLINMDLILNKITPPPNVSGPNELRHFDPEPTE 300
QY 392 EPPVNSIGKSPDSVLTAVSYKAAEAFGLGFSYAAPPTDSFL 431
DB 301 EPPVNSIGKSPDSVLTAVSYKAAEAFGLGFSYAAPPTDSFL 340

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RESULT 15
US-10-664-421--85
; Sequence 85, Application US/10664421
; Publication No. US2004014286A1
; GENERAL INFORMATION:
; APPLICANT: BREMER, RYAN
; APPLICANT: IBRAHIM, PRAEHA
; APPLICANT: KUMAR, ABHINAV
; APPLICANT: MANDIYAN, VALSAN
; APPLICANT: MILBURN, MICHAEL V.
; TITLE OF INVENTION: CRYSTAL STRUCTURE OF PIM-1 KINASE
; FILE REFERENCE: 039363/0703
; CURRENT APPLICATION NUMBER: US/10/664,421
; CURRENT FILING DATE: 2003-09-16
; PRIOR APPLICATION NUMBER: 60/412,341
; PRIOR FILING DATE: 2002-09-20
; PRIOR APPLICATION NUMBER: 60/411,398

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; PRIOR FILING DATE: 2002-09-16
; NUMBER OF SEQ ID NOS: 169
; SOFTWARE: Patentin Ver. 3.2
; SEQ ID NO 85
; LENGTH: 308
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-664-421-85

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Query Match          72.0%; Score 1635; DB 16; Length 308;
Best Local Similarity 100.0%; Pred. No. 3.5e-125;
Matches 308; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 48 ACKHPEVOSILKISQPEBELMANPSPSPSQOINLGPSSNPHAKPSDHFLLKVLGK 107
DB 1 ACKHPEVOSILKISQPEBELMANPSPSPSQOINLGPSSNPHAKPSDHFLLKVLGK 60
QY 108 SPGKVLARHKAEEVFAVKVLOKKAIIKKKEKHINSERNVLLKNVGHPLVGLHPSFO 167
DB 61 SPGKVLARHKAEEVFAVKVLOKKAIIKKKEKHINSERNVLLKNVGHPLVGLHPSFO 120
QY 168 TADKLIFVLDTYINGSEL.FYHLQRERCFLPRARFYAAEIASALGYLHSLNTVYRDLKEN 227
DB 121 TADKLIFVLDTYINGSEL.FYHLQRERCFLPRARFYAAEIASALGYLHSLNTVYRDLKEN 180
QY 228 ILLDSQGHIVLTDRGLCKENIENHSTSTGCTPEYLAPEVLAHKOPYDRTVDMWCLGAVL 287
DB 181 ILLDSQGHIVLTDRGLCKENIENHSTSTGCTPEYLAPEVLAHKOPYDRTVDMWCLGAVL 240
QY 288 YEMLYGLPPFYSRNTAEWYDNLINKPLQKKNITNSARHLLGGLLQKDRITRLGAKDDPM 347
DB 241 YEMLYGLPPFYSRNTAEWYDNLINKPLQKKNITNSARHLLGGLLQKDRITRLGAKDDPM 300
QY 348 EIKSHVFF 355
DB 301 EIKSHVFF 308

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Search completed: September 15, 2004, 14:53.13
Job time : 216.176 secs

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GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: September 15, 2004, 14:21:54 ; Search time 57.3433 Seconds  
(without alignments)  
388.027 Million cell updates/sec

Title: US-10-000-039A-2  
Perfect score: 2270  
Sequence: 1 MTWTEAKGTLTYSRMRGM.....KEAAKFLGSAVAPPTDSFL 431

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database :  
1: Issued Patents AA: \*  
2: /cgn2\_6/ptodata/2/iaa/5A.COMB.pep: \*  
3: /cgn2\_6/ptodata/2/iaa/5B.COMB.pep: \*  
4: /cgn2\_6/ptodata/2/iaa/6A.COMB.pep: \*  
5: /cgn2\_6/ptodata/2/iaa/6B.COMB.pep: \*  
6: /cgn2\_6/ptodata/2/iaa/BACKFILE1.pep: \*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	% Query Match	length	ID	Description
1	2270	100.0	431	US-09-031-295-2	Sequence 2, Appli
2	2254	99.3	431	US-08-712-709-5	Sequence 5, Appli
3	2254	99.3	431	US-09-111-444-5	Sequence 5, Appli
4	2254	99.3	431	US-09-541-228-5	Sequence 5, Appli
5	2204.5	97.1	430	US-08-712-709-9	Sequence 9, Appli
6	2204.5	97.1	430	US-09-111-444-9	Sequence 9, Appli
7	2204.5	97.1	430	US-09-541-228-9	Sequence 9, Appli
8	850.5	37.4	726	US-09-417-197-71	Sequence 71, Appli
9	850	37.4	480	US-09-091-058-2	Sequence 2, Appli
10	850	37.4	727	US-09-417-197-139	Sequence 139, App
11	806.5	35.5	492	US-09-430-564-2	Sequence 2, Appli
12	806.5	35.5	495	US-09-430-564-3	Sequence 3, Appli
13	803	35.4	525	US-08-749-902-7	Sequence 7, Appli
14	803	35.4	525	US-08-749-902-8	Sequence 8, Appli
15	803	35.4	525	US-09-430-564-16	Sequence 16, Appli
16	780.5	34.4	916	US-09-417-197-73	Sequence 73, Appli
17	780	34.4	637	US-09-817-310-2	Sequence 2, Appli
18	774.5	34.1	737	US-09-772-647-4	Sequence 4, Appli
19	773.5	34.1	587	US-08-313-274-2	Sequence 2, Appli
20	771	34.0	671	5266464-2	Patent No. 5266464
21	752.5	33.1	584	US-09-842-307-2	Sequence 2, Appli
22	697.5	30.7	343	US-09-394-455-38	Sequence 38, Appli
23	697.5	30.7	595	US-09-417-197-69	Sequence 69, Appli
24	692.5	30.5	350	US-09-457-040B-37	Sequence 37, Appli
25	692.5	30.5	351	US-09-457-040B-6	Sequence 6, Appli
26	691	30.4	1151	US-09-457-040B-11	Sequence 11, Appli
27	690.5	30.4	676	US-09-313-930-2	Sequence 2, Appli

28	688.5	30.3	351	4	US-09-394-455-4	Sequence 4, Appli
29	687.5	30.3	336	4	US-09-394-455-2	Sequence 3, Appli
30	687.5	30.3	343	4	US-09-394-455-34	Sequence 15, Appli
31	681.5	29.0	343	4	US-09-394-455-15	Sequence 15, Appli
32	669.5	29.5	264	2	US-07-857-224B-15	Sequence 3, Appli
33	668	29.4	942	4	US-08-685-852-3	Sequence 10, Appli
34	666.5	29.4	264	2	US-07-857-224B-10	Sequence 12, Appli
35	666	29.3	268	4	US-09-430-564-12	Sequence 12, Appli
36	665.5	29.3	264	2	US-07-857-224B-12	Sequence 13, Appli
37	661.5	29.1	263	2	US-07-857-224B-13	Sequence 17, Appli
38	661.5	29.1	264	2	US-07-857-224B-17	Sequence 14, Appli
39	658	29.0	269	2	US-07-857-224B-14	Sequence 11, Appli
40	657.5	29.0	264	2	US-07-857-224B-11	Sequence 16, Appli
41	654	28.8	269	2	US-07-857-224B-16	Sequence 6, Appli
42	649.5	28.6	258	4	US-09-430-564-6	Sequence 4, Appli
43	636.5	28.0	260	2	US-07-857-224B-4	Sequence 3, Appli
44	632.5	27.9	260	2	US-07-857-224B-3	Sequence 2, Appli
45	624.5	27.5	260	2	US-07-857-224B-2	

## ALIGNMENTS

```

RESULT 1
US-09-031-295-2
; Sequence 2, Application US/09031295
; Patent No. 6326181
; GENERAL INFORMATION:
; APPLICANT: LANG, Florian
; APPLICANT: MALDEGGER, Tullingen
; TITLE OF INVENTION: CELL VOLUME-REGULATED HUMAN KINASE H-SGK
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FOLEY & LARDNER
; STREET: 3000 K Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20007-5109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/031,295
; FILING DATE: 26-FEB-1998
; CLASSIFICATION: 435
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: DE 197-08-173.8
; FILING DATE: 28-FEB-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Sandercock, Colin G.
; REGISTRATION NUMBER: 31,298
; REFERENCE/DOCKET NUMBER: 058315/0123
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 672-5300
; TELEFAX: (202) 672-5399
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 431 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-031-295-2

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Query Match 100.0%; Score 2270; DB 4; Length 431;  
Best Local Similarity 100.0%; Pred. No. 3.5e-209; Indels 0; Gaps 0;  
Matches 431; Conservative 0; Mismatches 0;

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QY 1 MTWTEAKGTLTYSRMRGMVAIIIAFMKQRMGINDFIQKIANNSYACKEPVSILKI 60
DB 1 MTWTEAKGTLTYSRMRGMVAIIIAFMKQRMGINDFIQKIANNSYACKEPVSILKI 60

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QY 61 SQOPEELMANANSPSPSPSQOINLGSSNPHAKPSDFHFLKVIYIGKSGFGKVLAAHKA 120
Db 61 SQOPEELMANANSPSPSPSQOINLGSSNPHAKPSDFHFLKVIYIGKSGFGKVLAAHKA 120
QY 121 EYVYAVKVTLOKKAIIKKKEEKHIMSERVLLIKNVKHPFLVGLHFSFQTADKLYFVLDYIN 180
Db 121 EYVYAVKVTLOKKAIIKKKEEKHIMSERVLLIKNVKHPFLVGLHFSFQTADKLYFVLDYIN 180
QY 181 GGELEFYHLQREKCFLEPRARFYAAETASALGYLHSLNIVYRDLKPENIILLDSQGHVLTLD 240
Db 181 GGELEFYHLQREKCFLEPRARFYAAETASALGYLHSLNIVYRDLKPENIILLDSQGHVLTLD 240
QY 241 FGLCKENIEHNSITSTFCGTPETYLAEVLAPEVLHKKOPYDRTVDMWCLGAVLYEMLYGLPPFYSR 300
Db 241 FGLCKENIEHNSITSTFCGTPETYLAEVLAPEVLHKKOPYDRTVDMWCLGAVLYEMLYGLPPFYSR 300
QY 301 NTAEWMDNIIANKPLQIKPNTINSARHLLLEGLLOKDRTRKLGAKDPMELKSHVFFSLINW 360
Db 301 NTAEWMDNIIANKPLQIKPNTINSARHLLLEGLLOKDRTRKLGAKDPMELKSHVFFSLINW 360
QY 361 DDLINKKITPPENPVNSGPNELRHFDPEFTBEPVNSIGKSPSVLYVTASVKEAAEAFLG 420
Db 361 DDLINKKITPPENPVNSGPNELRHFDPEFTBEPVNSIGKSPSVLYVTASVKEAAEAFLG 420
QY 421 FSYAPPTDSFL 431
Db 421 FSYAPPTDSFL 431

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RESULT 2  
US-08-712-709-5  
Sequence 5, Application US/08712709  
Patent No. 5863780

## GENERAL INFORMATION:

APPLICANT: Au-Young, Janice  
APPLICANT: Guegler, Karl J.  
APPLICANT: Hawkins, Phillip R.  
TITLE OF INVENTION: NOVEL HUMAN PROTEIN KINASES  
NUMBER OF SEQUENCES: 9  
CORRESPONDENCE ADDRESS:  
ADDRESSER: Incyte Pharmaceuticals, Inc.  
STREET: 3174 Porter Drive  
CITY: Palo Alto  
STATE: CA  
COUNTRY: U.S.  
ZIP: 94304

## COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq Version 1.5  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/712,709  
FILING DATE: Filed Herewith

## ATTORNEY/AGENT INFORMATION:

NAME: Billings, Lucy J  
REGISTRATION NUMBER: 36,749  
REFERENCE/DOCKET NUMBER: PF-0118 US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-855-0555  
TELEFAX: 415-845-4166

## INFORMATION FOR SEQ ID NO: 5:

SEQUENCE CHARACTERISTICS:  
LENGTH: 431 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
IMMEDIATE SOURCE:  
LIBRARY:  
CLONE: Consensus  
US-08-712-709-5

Query Match 99.3%; Score 2254; DB 2; Length 431;  
Best Local Similarity 99.3%; Pred. No. 1.2e-207;  
Matches 428; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

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QY 1 MVTKEAKGTLVYSMRGQVVALITAPMKORRGANDPFOKIANNSYACKHPVOGIIKI 60
Db 1 MAVTIRAKGTLVYSMRGQVVALITAPMKORRGANDPFOKIANNSYACKHPVOGIIKI 60
QY 61 SQOPEELMANANSPSPSPSQOINLGSSNPHAKPSDFHFLKVIYIGKSGFGKVLAAHKA 120
Db 61 SQOPEELMANANSPSPSPSQOINLGSSNPHAKPSDFHFLKVIYIGKSGFGKVLAAHKA 120
QY 121 EYVYAVKVTLOKKAIIKKKEEKHIMSERVLLIKNVKHPFLVGLHFSFQTADKLYFVLDYIN 180
Db 121 EYVYAVKVTLOKKAIIKKKEEKHIMSERVLLIKNVKHPFLVGLHFSFQTADKLYFVLDYIN 180
QY 181 GGELEFYHLQREKCFLEPRARFYAAETASALGYLHSLNIVYRDLKPENIILLDSQGHVLTLD 240
Db 181 GGELEFYHLQREKCFLEPRARFYAAETASALGYLHSLNIVYRDLKPENIILLDSQGHVLTLD 240
QY 241 FGLCKENIEHNSITSTFCGTPETYLAEVLAPEVLHKKOPYDRTVDMWCLGAVLYEMLYGLPPFYSR 300
Db 241 FGLCKENIEHNSITSTFCGTPETYLAEVLAPEVLHKKOPYDRTVDMWCLGAVLYEMLYGLPPFYSR 300
QY 301 NTAEWMDNIIANKPLQIKPNTINSARHLLLEGLLOKDRTRKLGAKDPMELKSHVFFSLINW 360
Db 301 NTAEWMDNIIANKPLQIKPNTINSARHLLLEGLLOKDRTRKLGAKDPMELKSHVFFSLINW 360
QY 361 DDLINKKITPPENPVNSGPNELRHFDPEFTBEPVNSIGKSPSVLYVTASVKEAAEAFLG 420
Db 361 DDLINKKITPPENPVNSGPNELRHFDPEFTBEPVNSIGKSPSVLYVTASVKEAAEAFLG 420
QY 421 FSYAPPTDSFL 431
Db 421 FSYAPPTDSFL 431

```

RESULT 3  
US-09-111-444-5

Sequence 5, Application US/09111444  
Patent No. 6045792

## GENERAL INFORMATION:

APPLICANT: Au-Young, Janice  
APPLICANT: Guegler, Karl J.  
APPLICANT: Hawkins, Phillip R.  
TITLE OF INVENTION: NOVEL HUMAN PROTEIN KINASES  
NUMBER OF SEQUENCES: 9  
CORRESPONDENCE ADDRESS:  
ADDRESSER: Incyte Pharmaceuticals, Inc.  
STREET: 3174 Porter Drive  
CITY: Palo Alto  
STATE: CA  
COUNTRY: U.S.  
ZIP: 94304

## COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq Version 1.5  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/111,444  
FILING DATE:

## PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/712,709  
FILING DATE:

## ATTORNEY/AGENT INFORMATION:

NAME: Billings, Lucy J  
REGISTRATION NUMBER: 36,749  
REFERENCE/DOCKET NUMBER: PF-0118 US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-855-0555  
TELEFAX: 415-845-4166

; INFORMATION FOR SEQ ID NO: 5:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 431 amino acids  
 ; TYPE: amino acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: peptide  
 ; IMMEDIATE SOURCE:  
 ; LIBRARY:  
 ; CLONE: Consensus  
 US-09-111-444-5

Query Match 99.3%; Score 2254; DB 3; Length 431;  
 Best Local Similarity 99.3%; Pred. No. 1.2e-207;  
 Matches 428; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

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QY 1 MTVKTEAAKGLTITSRMNGVAIIIAFMKQRMGINDFIQKIANNVYACKHPEVQSILKI 60
DB 1 MAVKTEAAKGLTITSRMNGVAIIIAFMKQRMGINDFIQKIANNVYACKHPEVQSILKI 60
QY 61 SQPOPELIMANPSPSPSOQINLGSSNPHAKSDPHFLKVIKGSFGKVLARHKA 120
DB 61 SQPOPELIMANPSPSPSOQINLGSSNPHAKSDPHFLKVIKGSFGKVLARHKA 120
QY 121 EVFAVAVKYLQKKAIIKKKEKHIMSERVLLKNVGHPELVGHHFSFGTADKLYFVLDYIN 180
DB 121 EVFAVAVKYLQKKAIIKKKEKHIMSERVLLKNVGHPELVGHHFSFGTADKLYFVLDYIN 180
QY 181 GGEIIFYHQRRCFLEPPARFYAAIASALGYHSINTVYRDLKPEKNTLLDSQGHIVLTD 240
DB 181 GGEIIFYHQRRCFLEPPARFYAAIASALGYHSINTVYRDLKPEKNTLLDSQGHIVLTD 240
QY 241 FGLCKENIEHNSSTFGCTPEYLAPEVLAHKOPYRTVDMWCLGAVLYEMLYGLPPFYSR 300
DB 241 FGLCKENIEHNSSTFGCTPEYLAPEVLAHKOPYRTVDMWCLGAVLYEMLYGLPPFYSR 300
QY 301 NTAEMYDNILNKPLQIKPNITNSARHLLEGLQKDKRTKRLGAKDPMELKSHVFFSLINW 360
DB 301 NTAEMYDNILNKPLQIKPNITNSARHLLEGLQKDKRTKRLGAKDPMELKSHVFFSLINW 360
QY 361 DDLINKKITPPNPVNSGPNELRHFDPEETEEPVNSICKSPDSVLTASVKEAAEAFVG 420
DB 361 DDLINKKITPPNPVNSGPNELRHFDPEETEEPVNSICKSPDSVLTASVKEAAEAFVG 420
QY 421 FSYAPPTDSFL 431
DB 421 FSYAPPTDSFL 431
  
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## RESULT 4

US-09-541-228-5  
 ; Sequence 5, Application US/09541228  
 ; Patent No. 6232077  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Au-Young, Janice  
 ; APPLICANT: Guegler, Karl J.  
 ; APPLICANT: Hawkins, Phillip R.  
 ; TITLE OF INVENTION: NOVEL HUMAN PROTEIN KINASES  
 ; NUMBER OF SEQUENCES: 9  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Incyte Pharmaceuticals, Inc.  
 ; STREET: 3174 Porter Drive  
 ; CITY: Palo Alto  
 ; STATE: CA  
 ; COUNTRY: U.S.  
 ; ZIP: 94304  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Diskette  
 ; COMPUTER: IBM Compatible  
 ; OPERATING SYSTEM: DOS  
 ; SOFTWARE: FASTSEQ Version 1.5  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/09/541,228

; FILING DATE:  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: 08/712,709  
 ; FILING DATE:  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Billings, Lucy J.  
 ; REGISTRATION NUMBER: 36,749  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: 415-855-0555  
 ; TELEFAX: 415-845-4166  
 ; INFORMATION FOR SEQ ID NO: 5:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 431 amino acids  
 ; TYPE: amino acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: peptide  
 ; IMMEDIATE SOURCE:  
 ; LIBRARY:  
 ; CLONE: Consensus  
 US-09-541-228-5

Query Match 99.3%; Score 2254; DB 3; Length 431;  
 Best Local Similarity 99.3%; Pred. No. 1.2e-207;  
 Matches 428; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

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QY 1 MTVKTEAAKGLTITSRMNGVAIIIAFMKQRMGINDFIQKIANNVYACKHPEVQSILKI 60
DB 1 MAVKTEAAKGLTITSRMNGVAIIIAFMKQRMGINDFIQKIANNVYACKHPEVQSILKI 60
QY 61 SQPOPELIMANPSPSPSOQINLGSSNPHAKSDPHFLKVIKGSFGKVLARHKA 120
DB 61 SQPOPELIMANPSPSPSOQINLGSSNPHAKSDPHFLKVIKGSFGKVLARHKA 120
QY 121 EVFAVAVKYLQKKAIIKKKEKHIMSERVLLKNVGHPELVGHHFSFGTADKLYFVLDYIN 180
DB 121 EVFAVAVKYLQKKAIIKKKEKHIMSERVLLKNVGHPELVGHHFSFGTADKLYFVLDYIN 180
QY 241 FGLCKENIEHNSSTFGCTPEYLAPEVLAHKOPYRTVDMWCLGAVLYEMLYGLPPFYSR 300
DB 241 FGLCKENIEHNSSTFGCTPEYLAPEVLAHKOPYRTVDMWCLGAVLYEMLYGLPPFYSR 300
QY 301 NTAEMYDNILNKPLQIKPNITNSARHLLEGLQKDKRTKRLGAKDPMELKSHVFFSLINW 360
DB 301 NTAEMYDNILNKPLQIKPNITNSARHLLEGLQKDKRTKRLGAKDPMELKSHVFFSLINW 360
QY 361 DDLINKKITPPNPVNSGPNELRHFDPEETEEPVNSICKSPDSVLTASVKEAAEAFVG 420
DB 361 DDLINKKITPPNPVNSGPNELRHFDPEETEEPVNSICKSPDSVLTASVKEAAEAFVG 420
QY 421 FSYAPPTDSFL 431
DB 421 FSYAPPTDSFL 431
  
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## RESULT 5

US-08-712-709-9  
 ; Sequence 9, Application US/08712709  
 ; Patent No. 5863780  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Au-Young, Janice  
 ; APPLICANT: Guegler, Karl J.  
 ; APPLICANT: Hawkins, Phillip R.  
 ; TITLE OF INVENTION: NOVEL HUMAN PROTEIN KINASES  
 ; NUMBER OF SEQUENCES: 9  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Incyte Pharmaceuticals, Inc.  
 ; STREET: 3174 Porter Drive

CITY: Palo Alto  
STATE: CA  
COUNTRY: U.S.  
ZIP: 94304  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq Version 1.5  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/712,709  
FILING DATE: Filed Herewith  
ATTORNEY/AGENT INFORMATION:  
NAME: Billings, Lucy J  
REGISTRATION NUMBER: 36,749  
REFERENCE/DOCKET NUMBER: PF-0118 US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-855-0555  
TELEFAX: 415-845-4166  
INFORMATION FOR SEQ ID NO: 9:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 430 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULAR TYPE: peptide  
IMMEDIATE SOURCE:  
LIBRARY: GenBank  
CLONE: 294637  
US-08-712-709-9

Query Match 97.1%; Score 2204.5; DB 2; Length 430;  
Best Local Similarity 96.8%; Pred. No. 6,6e-203;  
Matches 417; Conservative 8; Mismatches 5; Indels 1; Gaps 1;  
QY 1 MTVKTEAAKGTLYSRMGVAIIIAFMKORRMGLNDFIOKIANNSYACKHPEVOSITKI 60  
DB 1 MTVKTEAAKGTLYSRMGVAIIIAFMKORRMGLNDFIOKIANNSYACKHPEVOSITKI 60  
QY 61 SOPPEELMANNPSPSPSOQINLGSSNPFAKSDHFHLKVIKGSFGKVLARHKA 120  
DB 61 SOPPEELMANNPSPSPSOQINLGSSNPFAKSDHFHLKVIKGSFGKVLARHKA 120  
QY 121 EYFYAVKVLQKKAIIKKKEEKHMSERNVLLKNVGHPLVGHHSFOTADKLYFYLDYIN 180  
DB 121 EYFYAVKVLQKKAIIKKKEEKHMSERNVLLKNVGHPLVGHHSFOTADKLYFYLDYIN 180  
QY 181 GGELEFYHLQRERCFLEPRARFYAAETASALGYLHSLNIVYDIAKPEINILLDSOGHIVLTD 240  
DB 181 GGELEFYHLQRERCFLEPRARFYAAETASALGYLHSLNIVYDIAKPEINILLDSOGHIVLTD 240  
QY 241 FGLCKENIEHNSTSTFCGTPEYLAPEVLAHKOPYDRIVDMWCLGAVLYEMLYGLPPFYSR 300  
DB 241 FGLCKENIEHNSTSTFCGTPEYLAPEVLAHKOPYDRIVDMWCLGAVLYEMLYGLPPFYSR 300  
QY 301 NTAEMYDNILNKPLQOLKNTNSARHLLLEGLQKDRTRKLGAKDPMWIKSHVPSILNW 360  
DB 301 NTAEMYDNILNKPLQOLKNTNSARHLLLEGLQKDRTRKLGAKDPMWIKSHVPSILNW 360  
QY 361 DDLINKKITPPFNPNVSGPNEIRHFDPEFTEEPVNSIGKSPDSVLVYASVKEAAEAFVG 420  
DB 361 DDLINKKITPPFNPNVSGPNEIRHFDPEFTEEPVNSIGKSPDSVLVYASVKEAAEAFVG 420  
QY 421 FSYAPPTDFTL 431  
DB 420 FSYAPPTDFTL 430

RESULT 6  
US-09-111-444-9  
; Sequence 9, Application US/09111444  
; Patent No. 6045792  
; GENERAL INFORMATION:

APPLICANT: Au-Young, Janice  
APPLICANT: Guegler, Karl J.  
APPLICANT: Hawkins, Philip R.  
TITLE OF INVENTION: NOVEL HUMAN PROTEIN KINASES  
NUMBER OF SEQUENCES: 9  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Incyte Pharmaceuticals, Inc.  
STREET: 3174 Porter Drive  
CITY: Palo Alto  
STATE: CA  
COUNTRY: U.S.  
ZIP: 94304  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq Version 1.5  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/111,444  
FILING DATE:  
PRIORITY APPLICATION DATA:  
APPLICATION NUMBER: 08/712,709  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Billings, Lucy J  
REGISTRATION NUMBER: 36,749  
REFERENCE/DOCKET NUMBER: PF-0118 US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-855-0555  
TELEFAX: 415-845-4166  
INFORMATION FOR SEQ ID NO: 9:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 430 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULAR TYPE: peptide  
IMMEDIATE SOURCE:  
LIBRARY: GenBank  
CLONE: 294637  
US-09-111-444-9

Query Match 97.1%; Score 2204.5; DB 3; Length 430;  
Best Local Similarity 96.8%; Pred. No. 6,6e-203;  
Matches 417; Conservative 8; Mismatches 5; Indels 1; Gaps 1;  
QY 1 MTVKTEAAKGTLYSRMGVAIIIAFMKORRMGLNDFIOKIANNSYACKHPEVOSITKI 60  
DB 1 MTVKTEAAKGTLYSRMGVAIIIAFMKORRMGLNDFIOKIANNSYACKHPEVOSITKI 60  
QY 61 SOPPEELMANNPSPSPSOQINLGSSNPFAKSDHFHLKVIKGSFGKVLARHKA 120  
DB 61 SOPPEELMANNPSPSPSOQINLGSSNPFAKSDHFHLKVIKGSFGKVLARHKA 120  
QY 121 EYFYAVKVLQKKAIIKKKEEKHMSERNVLLKNVGHPLVGHHSFOTADKLYFYLDYIN 180  
DB 121 EYFYAVKVLQKKAIIKKKEEKHMSERNVLLKNVGHPLVGHHSFOTADKLYFYLDYIN 180  
QY 181 GGELEFYHLQRERCFLEPRARFYAAETASALGYLHSLNIVYDIAKPEINILLDSOGHIVLTD 240  
DB 181 GGELEFYHLQRERCFLEPRARFYAAETASALGYLHSLNIVYDIAKPEINILLDSOGHIVLTD 240  
QY 241 FGLCKENIEHNSTSTFCGTPEYLAPEVLAHKOPYDRIVDMWCLGAVLYEMLYGLPPFYSR 300  
DB 241 FGLCKENIEHNSTSTFCGTPEYLAPEVLAHKOPYDRIVDMWCLGAVLYEMLYGLPPFYSR 300  
QY 301 NTAEMYDNILNKPLQOLKNTNSARHLLLEGLQKDRTRKLGAKDPMWIKSHVPSILNW 360  
DB 301 NTAEMYDNILNKPLQOLKNTNSARHLLLEGLQKDRTRKLGAKDPMWIKSHVPSILNW 360  
QY 361 DDLINKKITPPFNPNVSGPNEIRHFDPEFTEEPVNSIGKSPDSVLVYASVKEAAEAFVG 420  
DB 361 DDLINKKITPPFNPNVSGPNEIRHFDPEFTEEPVNSIGKSPDSVLVYASVKEAAEAFVG 420



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RESULT 9
US-09-091-058-2
; Sequence 2, Application US/09091058
; Patent No. 6054285
; GENERAL INFORMATION:
; APPLICANT: Hemmings, Brian A.
; APPLICANT: Frech, Matthias
; TITLE OF INVENTION: Screening Method
; FILE REFERENCE: 4-20683/A/20684/PCP
; CURRENT APPLICATION NUMBER: US/09/091.058
; CURRENT FILING DATE: 1998-06-10
; EARLIER APPLICATION NUMBER: PCT/EP96/04814
; EARLIER FILING DATE: 1996-11-05
; EARLIER APPLICATION NUMBER: 9525703.6
; EARLIER FILING DATE: 1995-12-15
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 2
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-091-058-2

Query Match
Best Local Similarity 37.4%; Score 850; DB 3; Length 480;
Matches 183; Conservative 72; Mismatches 132; Indels 36; Gaps 9;

QY 28 MKORRGGLDIFLOK-----IANNVACKHP-----VOSILKISQPOBELNANP 73
DB 63 MKTERPRPNTFIRCLQMTVTIERTPHVETPEREEMWTALQVADGLKQEBEEMDFRS 122
QY 74 SPPSPS-----QOINGPSNPHAXP-----SDHFHVLVIGSGFGKYLARHKAEEVF 123
DB 123 GSPSDNSGABEMEVSL-----AKPKHRYVMNEFFYKLGLGKGYKVLIVREKATGRY 175
QY 124 YAVKVLQKAILKKKEBKIMSERNVLLKNVKGPFVLGHFSPQADKLYFVLDYINGGE 183
DB 176 YAMKILKKEVIVAKDEVAHTLFE-NKVLQNSRHPLTALKYSQTHDRLCTFWEYANGGE 234
QY 184 LFTYHLORECFLEPRARFYAAISALGYLHS-LNIVYDILKPEINTLDSQGHIVLTDPG 242
DB 235 LFFHLSREVFSEDRARFYGAELVSAIDYLHSEKNVVYRDLKLEINMLDKDHIKITDPRG 294
QY 243 LCKENIENHSTSTPGCTPEYLAPRYLHKQPYDRYDVMCLGAVLYEMLYGILPPTFSRNT 302
DB 295 LCKEGIKGATMKTFCGTEYLAPEVLENDYGRADVWGLGVVMYEMMCGRLPFYNODH 354
QY 303 AEMYDNIILNKPLQLKPNITNSARHLLLEGLLOKDRTRL-GAKDDFMEIKSHVFFSLIND 361
DB 355 EKLFEILIMEIRFPRTLGPEAKSLLSGLLKDPQRLGGSSEDAKEIMQHFFAGITWQ 414
QY 362 DLINKKITPPENPNVSGPNELRHPDEFTEEPVNSIGSPSVLTVASVKEAABAFGLF 421
DB 415 HYEEKKLSPFPKQVYSETDTRYFDEEFTAQMITTPPDODDSMECVDS--ERRPHFPQF 472
QY 422 SYA 424
DB 473 SYS 475

RESULT 10
US-09-417-197-139
; Sequence 139, Application US/09417197
; Patent No. 6518021
; GENERAL INFORMATION:
; APPLICANT: Oie Thastrup, et al.
; TITLE OF INVENTION: A Method For Extracting Quantitative Information Relating To An I
; FILE REFERENCE: 3759-0110P
; CURRENT APPLICATION NUMBER: US/09/417.197
; CURRENT FILING DATE: 1999-10-07
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; NUMBER OF SEQ ID NOS: 143
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 139
; LENGTH: 727
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: EGFP-PKB fusion
US-09-417-197-139

Query Match
Best Local Similarity 37.4%; Score 850; DB 4; Length 727;
Matches 183; Conservative 72; Mismatches 132; Indels 36; Gaps 9;

QY 28 MKORRGGLDIFLOK-----IANNVACKHP-----VOSILKISQPOBELNANP 73
DB 310 MKTERPRPNTFIRCLQMTVTIERTPHVETPEREEMWTALQVADGLKQEBEEMDFRS 369
QY 74 SPPSPS-----QOINGPSNPHAXP-----SDHFHVLVIGSGFGKYLARHKAEEVF 123
DB 370 GSPSDNSGABEMEVSL-----AKPKHRYVMNEFFYKLGLGKGYKVLIVREKATGRY 422
QY 124 YAVKVLQKAILKKKEBKIMSERNVLLKNVKGPFVLGHFSPQADKLYFVLDYINGGE 183
DB 423 YAMKILKKEVIVAKDEVAHTLFE-NKVLQNSRHPLTALKYSQTHDRLCTFWEYANGGE 481
QY 184 LFTYHLORECFLEPRARFYAAISALGYLHS-LNIVYDILKPEINTLDSQGHIVLTDPG 242
DB 482 LFFHLSREVFSEDRARFYGAELVSAIDYLHSEKNVVYRDLKLEINMLDKDHIKITDPRG 541
QY 243 LCKENIENHSTSTPGCTPEYLAPRYLHKQPYDRYDVMCLGAVLYEMLYGILPPTFSRNT 302
DB 542 LCKEGIKGATMKTFCGTEYLAPEVLENDYGRADVWGLGVVMYEMMCGRLPFYNODH 601
QY 303 AEMYDNIILNKPLQLKPNITNSARHLLLEGLLOKDRTRL-GAKDDFMEIKSHVFFSLIND 361
DB 602 EKLFEILIMEIRFPRTLGPEAKSLLSGLLKDPQRLGGSSEDAKEIMQHFFAGITWQ 661
QY 362 DLINKKITPPENPNVSGPNELRHPDEFTEEPVNSIGSPSVLTVASVKEAABAFGLF 421
DB 662 HYEEKKLSPFPKQVYSETDTRYFDEEFTAQMITTPPDODDSMECVDS--ERRPHFPQF 719
QY 422 SYA 424
DB 720 SYS 722

RESULT 11
US-09-430-564-2
; Sequence 2, Application US/09430564
; Patent No. 6372467
; GENERAL INFORMATION:
; APPLICANT: John Blenis
; APPLICANT: Kay K. Lee-Fruman
; APPLICANT: Calvin J. Kuo
; TITLE OF INVENTION: P5456K AND P856K GENES, PROTEINS,
; TITLE OF INVENTION: PRIMERS, PROBES, AND DETECTION METHODS
; FILE REFERENCE: 00246/506002
; CURRENT APPLICATION NUMBER: US/09/430.564
; CURRENT FILING DATE: 1999-10-29
; PRIOR APPLICATION NUMBER: 60/106.141
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 482
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-430-564-2

Query Match
Best Local Similarity 35.5%; Score 806.5; DB 4; Length 482;
Matches 172; Conservative 66; Mismatches 111; Indels 39; Gaps 12;
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QY 65 EPEIMMANESP-----PPSPSQ-----INLGPSS-NPHAKPSDFHFLKVIQK 106
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| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
Db 20 BEELSPADACPLAEIRAAGLPEVGHYEVELTETSVNGPERIGBHC-----FELLRVLGK 75
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
QY 107 GSFQVLLARHKAEEV---FYAVYLOKKAIIKK-KEEKHIMSERVLLKNVKEPVLV 161
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
Db 76 GGYGVYFQVR-KVQCGTNLGIYAMKVLKAKIVRAKTAHTRABERN-LBSVKHPFTVE 133
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
QY 162 LHFSPQTADKLYFVDYINGGELFYHLQERCELEPRAPFYAAETIASALGYLHSLNIYR 221
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
Db 134 LAAAFQTGGKCLYLLIECTSGGELFTLIEREGFLIEDTACFYAEITTLALGHLSQGIYR 193
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
QY 222 DLKPNILLDSQGHIVLTDPGLCENIEHNSSTSTFCGPEXLAPEVLAKOPYDRTVDMW 281
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
Db 194 DLKPNIMILSSGCHKLTDPGLCXSHHGAVTHFCGTEYMAPEIIVRSQHNAVDWM 253
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
QY 282 CLGAVLYEMLYGLPPFYSRNTAEMTDNLINKPLQKNITNSARHLBGLQKDKTKL- 340
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
Db 254 SIGALMYDMLTSGPPTAENRCKTMDKIRGKLALPYLTDPARDLVKKFLKRNPSORIG 313
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
QY 341 GAKDFMEIKSHVEFSLINMDDLINKKITPPFNPNVSGPNELRHDPFETTER-PVPSNIG 399
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
Db 314 GGGPAAVDQHPFRHNMWDDLAMRVDPFRPCLQSEEDVSGPDTIRFTQTPV----- 368
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
QY 400 KSPDVLVTASVKEAAEALGFSYAPPT 427
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
Db 369 DSPDD---TALSEGANQALGFTYVAPS 393
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
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| | | | | : | | | | | : | | | | | : | | | | | : | | | | |

```

```

RESULT 12
US-09-430-564-3
; Sequence 3, Application US/09430564
; Patent No. 6372467
; GENERAL INFORMATION:
; APPLICANT: John Blenis
; APPLICANT: Kay K. Lee-Fruman
; APPLICANT: Calvin J. Kuo
; TITLE OF INVENTION: P54S6K AND P85S6K GENES, PROTEINS,
; TITLE OF INVENTION: PRIMERS, PROBES, AND DETECTION METHODS
; FILE REFERENCE: 00246/506002
; CURRENT APPLICATION NUMBER: US/09/430,564
; CURRENT FILING DATE: 1999-10-29
; PRIOR APPLICATION NUMBER: 60/106,141
; PRIOR FILING DATE: 1998-10-29
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 495
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-430-564-3

```

```

Query Match 35.5%; Score 806.5; DB 4; Length 495;
Best Local Similarity 44.3%; Pred. No. 9e-69;
Matches 172; Conservative 66; Mismatches 111; Indels 39; Gaps 12;

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```

QY 65 EPEIMMANESP-----PPSPSQ-----INLGPSS-NPHAKPSDFHFLKVIQK 106
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
Db 33 BEELSPADACPLAEIRAAGLPEVGHYEVELTETSVNGPERIGBHC-----FELLRVLGK 88
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
QY 107 GSFQVLLARHKAEEV---FYAVYLOKKAIIKK-KEEKHIMSERVLLKNVKEPVLV 161
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
Db 89 GGYGVYFQVR-KVQCGTNLGIYAMKVLKAKIVRAKTAHTRABERN-LBSVKHPFTVE 146
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
QY 162 LHFSPQTADKLYFVDYINGGELFYHLQERCELEPRAPFYAAETIASALGYLHSLNIYR 221
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
Db 147 LAAAFQTGGKCLYLLIECTSGGELFTLIEREGFLIEDTACFYAEITTLALGHLSQGIYR 206
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
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QY 222 DLKPNILLDSQGHIVLTDPGLCENIEHNSSTSTFCGPEXLAPEVLAKOPYDRTVDMW 281
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
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Db 207 DLKPNIMILSSGCHKLTDPGLCXSHHGAVTHFCGTEYMAPEIIVRSQHNAVDWM 266
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
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QY 282 CLGAVLYEMLYGLPPFYSRNTAEMTDNLINKPLQKNITNSARHLBGLQKDKTKL- 340
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
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Db 267 SIGALMYDMLTSGPPTAENRCKTMDKIRGKLALPYLTDPARDLVKKFLKRNPSORIG 326
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
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| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
QY 341 GAKDFMEIKSHVEFSLINMDDLINKKITPPFNPNVSGPNELRHDPFETTER-PVPSNIG 399
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
Db 327 GGGPAAVDQHPFRHNMWDDLAMRVDPFRPCLQSEEDVSGPDTIRFTQTPV----- 381
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
QY 400 KSPDVLVTASVKEAAEALGFSYAPPT 427
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
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| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
Db 382 DSPDD---TALSEGANQALGFTYVAPS 406
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
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RESULT 13
US-08-749-902-7
; Sequence 7, Application US/08749902
; Patent No. 5985635
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; APPLICANT: Goli, Surya K.
; APPLICANT: Hillman, Jennifer L.
; TITLE OF INVENTION: NOVEL HUMAN SERINE/THREONINE
; TITLE OF INVENTION: PROTEIN KINASES
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSER: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: US
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/749,902
; FILING DATE: Filed Herewith
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0150 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 525 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 189508
US-08-749-902-7

```

```

Query Match 35.4%; Score 803; DB 2; Length 525;
Best Local Similarity 46.3%; Pred. No. 2.1e-68;
Matches 163; Conservative 64; Mismatches 105; Indels 20; Gaps 9;

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QY 83 INLGPSSNHAKPSDFHFLKVIQKSGSPGVLLARH-----KAEVFFAAVYVLOKKAIIKK- 137
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
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| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
Db 79 VNRGPEK---IRPECFELLRVLGKGYGVFQVRKVTGANTKIF-AMKVLKAMIVRNA 134
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
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| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
QY 136 KEEKHIMSERVLLKNVKEPVLVGLHFSFQTADKLYFVDYINGGELFYHLQERCELEPR 197
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
Db 135 KOTAHTRAKERNI-LBSVKHPFTVEIDLIYAQOTGGKCLYLLIECTSGGELFTLIEREGFLIED 193
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
QY 198 RARFYAAETIASALGYLHSLNIYRDLKPNILLDSQGHIVLTDPGLCENIEHNSSTSTST 257
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |
| | | | | : | | | | | : | | | | | : | | | | | : | | | | |

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Db 194 TACFYLAELISMALGHILQKGIYRDLPENIMLNHOGHVLTDPGLCKESIHDGVTHTF 253  
Qy 258 CGTPEYLAPEVLIHKQYDRVDWMCIGAVLYEMLYGPPYSSNTAMNTIINKPLQK 317  
Db 254 CGTIEYMAPEILMRSGHNRAVDWMSLGALMYDMLTGAPPTGENRKKTIDILKCKIINLP 313  
Qy 318 PNITNSARHLLEGLQKDRTRKLG-KDPMELIKSHVFESLINMDDLINKKITTPEPNV 376  
Db 314 PYLTQEARDLKLLKRNNAASRLGAGPDAGVQAHFFPHINWELLARKVEPFPKPL 373  
Qy 377 SGPNELRHDPPEFTER-PVPNSIGKSPDSVLYTASVKEAAEALFGSYAPT 427  
Db 374 QSEBDVSQFDSKFTQTPV-----DSPDDSTLSSES--ANQVFLGFTYVAPS 417

RESULT 14  
US-08-749-902-8  
Sequence 8, Application US/08749902  
Patent No. 5985635  
GENERAL INFORMATION:  
APPLICANT: Bandman, Olga  
APPLICANT: Goli, Surya K.  
APPLICANT: Hillman, Jennifer L.  
TITLE OF INVENTION: NOVEL HUMAN SERINE/THREONINE  
NUMBER OF SEQUENCES: 8  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: INCYTE PHARMACEUTICALS, INC.  
STREET: 3174 Porter Drive  
CITY: Palo Alto  
STATE: CA  
COUNTRY: US  
ZIP: 94304  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/749,902  
FILING DATE: Filed Herewith  
PRIORITY APPLICATION DATA:  
APPLICATION NUMBER:  
ATTORNEY/AGENT INFORMATION:  
FILING DATE:  
NAME: Billings, Lucy T.  
REGISTRATION NUMBER: 36,749  
REFERENCE/DOCKET NUMBER: PF-0150 US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-855-0555  
TELEFAX: 415-845-4166  
INFORMATION FOR SEQ ID NO: 8:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 525 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
IMMEDIATE SOURCE:  
LIBRARY: GenBank  
CLONE: 1562  
US-08-749-902-8

Query Match 35.4%; Score 803; DB 2; Length 525;  
Best Local Similarity 46.3%; Pred. No. 2.1e-68;  
Matches 163; Conservative 64; Mismatches 105; Indels 20; Gaps 9;

Qy 83 INLGPSSNPHAKPSDFHLKVLIGKSPFGKYLARH-----KAEVFAVAVLQKALIKK- 137  
Db 79 VNRGPEK--IRPECFELLRLVIGKGGYGVFQVRKVTGANTGKIF-AMKVLKKAMIVRNA 134  
Qy 138 KBEKIMSERNVLLKNVGHPLVGLHFSFQIADKLYFVLDYINGELFYHLQRERCFLEP 197

Db 135 KQTAHTKAEKNI--LEEVKHPFIYDLIYAPOTGKYLILEEYSGGELFMQLEBRGIFMED 193  
Qy 198 RARFYAAETIASALGYIHSINIYTRDLKPENILLDSQGHVLTDPGLCKENIEHNSSTSTF 257  
Db 194 TACFYLAELISMALGHILQKGIYRDLPENIMLNHOGHVLTDPGLCKESIHDGVTHTF 253  
Qy 258 CGTPEYLAPEVLIHKQYDRVDWMCIGAVLYEMLYGPPYSSNTAMNTIINKPLQK 317  
Db 254 CGTIEYMAPEILMRSGHNRAVDWMSLGALMYDMLTGAPPTGENRKKTIDILKCKIINLP 313  
Qy 318 PNITNSARHLLEGLQKDRTRKLG-KDPMELIKSHVFESLINMDDLINKKITTPEPNV 376  
Db 314 PYLTQEARDLKLLKRNNAASRLGAGPDAGVQAHFFPHINWELLARKVEPFPKPL 373  
Qy 377 SGPNELRHDPPEFTER-PVPNSIGKSPDSVLYTASVKEAAEALFGSYAPT 427  
Db 374 QSEBDVSQFDSKFTQTPV-----DSPDDSTLSSES--ANQVFLGFTYVAPS 417

RESULT 15  
US-09-430-564-16  
Sequence 16, Application US/09430564  
Patent No. 6372467  
GENERAL INFORMATION:  
APPLICANT: John Blenis  
APPLICANT: Kay K. Lee-Fruman  
APPLICANT: Calvin J. Kuo  
TITLE OF INVENTION: P54SK AND P85SK GENES, PROTEINS,  
TITLE OF INVENTION: PRIMERS, PROBES, AND DETECTION METHODS  
FILE REFERENCE: 00246/506002  
CURRENT APPLICATION NUMBER: US/09/430,564  
CURRENT FILING DATE: 1999-10-29  
PRIORITY APPLICATION NUMBER: 60/106,141  
PRIOR FILING DATE: 1998-10-29  
NUMBER OF SEQ ID NOS: 16  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 16  
LENGTH: 525  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-430-564-16

Query Match 35.4%; Score 803; DB 4; Length 525;  
Best Local Similarity 46.3%; Pred. No. 2.1e-68;  
Matches 163; Conservative 64; Mismatches 105; Indels 20; Gaps 9;

Qy 83 INLGPSSNPHAKPSDFHLKVLIGKSPFGKYLARH-----KAEVFAVAVLQKALIKK- 137  
Db 79 VNRGPEK--IRPECFELLRLVIGKGGYGVFQVRKVTGANTGKIF-AMKVLKKAMIVRNA 134  
Qy 138 KBEKIMSERNVLLKNVGHPLVGLHFSFQIADKLYFVLDYINGELFYHLQRERCFLEP 197  
Db 135 KQTAHTKAEKNI--LEEVKHPFIYDLIYAPOTGKYLILEEYSGGELFMQLEBRGIFMED 193  
Qy 198 RARFYAAETIASALGYIHSINIYTRDLKPENILLDSQGHVLTDPGLCKENIEHNSSTSTF 257  
Db 194 TACFYLAELISMALGHILQKGIYRDLPENIMLNHOGHVLTDPGLCKESIHDGVTHTF 253  
Qy 258 CGTPEYLAPEVLIHKQYDRVDWMCIGAVLYEMLYGPPYSSNTAMNTIINKPLQK 317  
Db 254 CGTIEYMAPEILMRSGHNRAVDWMSLGALMYDMLTGAPPTGENRKKTIDILKCKIINLP 313  
Qy 318 PNITNSARHLLEGLQKDRTRKLG-KDPMELIKSHVFESLINMDDLINKKITTPEPNV 376  
Db 314 PYLTQEARDLKLLKRNNAASRLGAGPDAGVQAHFFPHINWELLARKVEPFPKPL 373  
Qy 377 SGPNELRHDPPEFTER-PVPNSIGKSPDSVLYTASVKEAAEALFGSYAPT 427  
Db 374 QSEBDVSQFDSKFTQTPV-----DSPDDSTLSSES--ANQVFLGFTYVAPS 417

Search completed: September 15, 2004, 14:34:12  
Job time : 61.3433 secs





Blank Sheet

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: September 18, 2004, 20:33:40 ; Search time 1115 Seconds  
(without alignments)  
10728.653 Million cell updates/sec

Title: US-10-000-039a-1  
Perfect score: 2370  
Sequence: 1 CACGAGGAGCGCTACGTC.....AAAAAAAAAAAAAAAAAAAA 2370

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 3327077 seqs, 2523723180 residues

Total number of hits satisfying chosen parameters: 6654154

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA:\*

1: /cgn2\_6/ptodata/1/pubpna/US07\_PUBCOMB.seq:\*  
2: /cgn2\_6/ptodata/1/pubpna/PCT\_NEW\_PUB.seq:\*  
3: /cgn2\_6/ptodata/1/pubpna/US06\_NEW\_PUB.seq:\*  
4: /cgn2\_6/ptodata/1/pubpna/US06\_PUBCOMB.seq:\*  
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13: /cgn2\_6/ptodata/1/pubpna/US09\_NEW\_PUB.seq2:\*  
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18: /cgn2\_6/ptodata/1/pubpna/US60\_NEW\_PUB.seq:\*  
19: /cgn2\_6/ptodata/1/pubpna/US60\_PUBCOMB.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2370	100.0	2370	9	US-09-969-347-214
2	2370	100.0	2370	9	US-09-880-107-3855
3	2370	100.0	2370	15	US-10-000-039-1
4	2312.6	97.6	2370	16	US-10-353-690-11
5	2312.6	97.6	2343	13	US-10-403-161-1
6	2312.6	97.6	2354	15	US-10-210-120-22
7	2304.8	97.2	2365	9	US-09-981-353-6
8	2262.8	95.5	2311	9	US-09-810-808-6
9	2262.8	95.5	2311	16	US-10-305-720-772
10	2201	92.9	2201	16	US-10-094-749-222
11	2140.8	90.3	2281	16	US-10-131-410-39
12	1419.6	59.9	2435	16	US-10-191-803-117
13	1289.8	54.4	1315	13	US-10-403-161-3
14	1218.2	51.4	1338	15	US-10-067-977-1

15	1152.6	48.6	10573	15	US-10-067-977-3	Sequence 3, Appl 1
16	527.2	22.2	1366	13	US-10-221-278-68	Sequence 68, Appl 1
17	527.2	22.2	1366	16	US-10-291-172-68	Sequence 68, Appl 1
18	527.2	22.2	1456	15	US-10-119-926-20	Sequence 20, Appl 1
19	527.2	22.2	1812	9	US-09-971-118-1	Sequence 1, Appl 1
20	527.2	22.2	1812	12	US-10-380-235-5	Sequence 5, Appl 1
21	527.2	22.2	1812	17	US-10-429-160-51	Sequence 51, Appl 1
22	522	22.0	2391	13	US-10-342-887-1423	Sequence 1423, Appl 1
23	522	22.0	2391	13	US-10-172-118-1423	Sequence 1423, Appl 1
24	522	22.0	2391	16	US-10-293-027-115	Sequence 115, Appl 1
25	522	22.0	2512	9	US-09-784-249-1	Sequence 1, Appl 1
26	522	22.0	2572	11	US-09-764-875-302	Sequence 302, Appl 1
27	522	22.0	2702	11	US-09-764-875-148	Sequence 148, Appl 1
28	518.8	21.9	2760	14	US-10-098-841-195	Sequence 195, Appl 1
29	517.2	21.8	3984	17	US-10-755-889-41	Sequence 41, Appl 1
30	516.2	21.8	1333	13	US-10-296-115-370	Sequence 370, Appl 1
31	461.4	19.5	499	15	US-10-102-524-587	Sequence 587, Appl 1
32	448.6	18.9	491	10	US-09-918-995-13360	Sequence 13360, Appl 1
33	421.8	17.8	476	10	US-09-918-995-13695	Sequence 13695, Appl 1
34	408.8	17.2	423	9	US-09-925-300-860	Sequence 860, Appl 1
35	402.6	17.0	592	10	US-09-814-353-20051	Sequence 20051, Appl 1
36	400.8	16.9	447	10	US-09-918-995-15481	Sequence 15481, Appl 1
37	389.8	16.4	694	15	US-10-181-447A-55	Sequence 55, Appl 1
38	381.6	16.1	1510	13	US-10-262-511-139	Sequence 139, Appl 1
39	353.2	14.9	851	9	US-09-764-868-56	Sequence 56, Appl 1
40	353.2	14.9	851	11	US-09-764-875-578	Sequence 578, Appl 1
41	320.6	13.5	502	10	US-09-814-353-14487	Sequence 14487, Appl 1
42	293.4	12.4	433	9	US-09-960-352-4128	Sequence 4128, Appl 1
43	286.2	12.1	404	9	US-09-960-352-7426	Sequence 7426, Appl 1
44	285.4	12.0	3872	10	US-09-867-034-11	Sequence 11, Appl 1
45	285.4	12.0	3872	13	US-10-276-115-11	Sequence 11, Appl 1

#### ALIGNMENTS

#### RESULT 1

US-09-969-347-214  
; Sequence 214, Application US/09969347  
; Patent No. US20020115085A1  
; GENERAL INFORMATION:  
; APPLICANT: Ebner, Reinhard  
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu  
; FILE REFERENCES: 689290-69  
; CURRENT APPLICATION NUMBER: US/09/969,347  
; CURRENT FILING DATE: 2001-10-02  
; PRIOR APPLICATION NUMBER: US/60/237,598  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: US/60/237,604  
; PRIOR FILING DATE: 2000-10-03  
; NUMBER OF SEQ ID NOS: 318  
; SOFTWARE: Patent in version 3.0  
; SEQ ID NO 214  
; LENGTH: 2370  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; US-09-969-347-214

Query Match 100.0%; Score 2370; DB 9; Length 2370;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 2370; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CACGAGGAGCGCTAAAGCTCTTTCTGCTCTCCCGGTTGGTATGACGGTGAACACTGAG 60

Db 1 CACGAGGAGCGCTAAAGCTCTTTCTGCTCTCCCGGTTGGTATGACGGTGAACACTGAG 60

Qy 61 GCTCTAGGCGCCCTCACTTCTCCAGATGAGGCGCATGTTGGAATTTCTCATGCT 120

Db 61 GCTCTAGGCGCCCTCACTTCTCCAGATGAGGCGCATGTTGGAATTTCTCATGCT 120

Qy 121 TTCTATGACGAGGAGGATGGGTCTGAACACACTTTATTTCAGAGATTGCCAATACTCC 180

Db 121 TTCATGAAGCAGAGGAGGATGGTCTGAACGACTTTTATTCAGAGATTGCCAATACTCC 180  
Qy 181 TATGATCAAAACACCCTCAAGTTCACTCCATCTTCAAGATCTCCCAACCTCAGGAGCCT 240  
Db 181 TATGATCAAAACACCCTCAAGTTCACTCCATCTTCAAGATCTCCCAACCTCAGGAGCCT 240  
Qy 241 GAGCTTATGAATGCCAACCCCTTCTCTCCACCAAGTCCCTTCAGCAATCAACCTTGGC 300  
Db 241 GAGCTTATGAATGCCAACCCCTTCTCTCCACCAAGTCCCTTCAGCAATCAACCTTGGC 300  
Qy 301 CCGTGTCCAAATCCTCATGCTAAACCATCTGACTTTCACCTTCTGAAAGTGAATCGGAAG 360  
Db 301 CCGTGTCCAAATCCTCATGCTAAACCATCTGACTTTCACCTTCTGAAAGTGAATCGGAAG 360  
Qy 361 GGCAGTTTTGAAAGTTCTTCTAGCAAGACACAAGGCAAGAGAGTGTCTATGCAATC 420  
Db 361 GGCAGTTTTGAAAGTTCTTCTAGCAAGACACAAGGCAAGAGAGTGTCTATGCAATC 420  
Qy 421 AAAGTTTACGAAGAAGCAATCTGAAAAAGAAAGAGGAAGCATATTATGCGGAG 480  
Db 421 AAAGTTTACGAAGAAGCAATCTGAAAAAGAAAGAGGAAGCATATTATGCGGAG 480  
Qy 481 CGGATGTTCTGTTGAAGATCTGAAGCACCCTTCTCTGGTGGGCTTCACTTCTTTTC 540  
Db 481 CGGATGTTCTGTTGAAGATCTGAAGCACCCTTCTCTGGTGGGCTTCACTTCTTTTC 540  
Qy 541 CAGACTGCTGACAAATTTGACTTTGTCTAGACTACATTAATGTTGGAGTTGTTCTAC 600  
Db 541 CAGACTGCTGACAAATTTGACTTTGTCTAGACTACATTAATGTTGGAGTTGTTCTAC 600  
Qy 601 CATCTCCAGAGGAAACGCTGCTCTGGAAACACCGGCTCGTTCTATGCTCTGAAATA 660  
Db 601 CATCTCCAGAGGAAACGCTGCTCTGGAAACACCGGCTCGTTCTATGCTCTGAAATA 660  
Qy 661 GCCAGTCTTGGGCTACCTGCAATTCACAGGACCAATGTTTATGAGACTTAAACACAGAG 720  
Db 661 GCCAGTCTTGGGCTACCTGCAATTCACAGGACCAATGTTTATGAGACTTAAACACAGAG 720  
Qy 721 AATATTTTCTAGATTCACAGGACACATTTGCTTACTGATTTCCGACTCTGCAAGAG 780  
Db 721 AATATTTTCTAGATTCACAGGACACATTTGCTTACTGATTTCCGACTCTGCAAGAG 780  
Qy 781 AACATTTGAACACACAGACACATCCACTTCTGTGCAACCGCGAGTATCTGCACCT 840  
Db 781 AACATTTGAACACACAGACACATCCACTTCTGTGCAACCGCGAGTATCTGCACCT 840  
Qy 841 GAGTGTCTTATAGCAGCCTTATGACAGGACTGTGGACTGTGCTGGGAGCTGTC 900  
Db 841 GAGTGTCTTATAGCAGCCTTATGACAGGACTGTGGACTGTGCTGGGAGCTGTC 900  
Qy 901 TTGTATGAGATGCTGTATGGCTGCGGCTTTTATAGCCGAAACACAGCTGAAATGTAC 960  
Db 901 TTGTATGAGATGCTGTATGGCTGCGGCTTTTATAGCCGAAACACAGCTGAAATGTAC 960  
Qy 961 GACAACTTCTGAACAGCCTCTCCAGTGAAACCAATATTAATAATTCGCAAGAC 1020  
Db 961 GACAACTTCTGAACAGCCTCTCCAGTGAAACCAATATTAATAATTCGCAAGAC 1020  
Qy 1021 CTCCTGGAGGCTCTCTGCAAGAGGACAGGACCAAGCGCTGGGCGCAAGGATGACTTC 1080  
Db 1021 CTCCTGGAGGCTCTCTGCAAGAGGACAGGACCAAGCGCTGGGCGCAAGGATGACTTC 1080  
Qy 1081 ATGAGATTAAGATCATGTCTTCTTCTTAAATTAACCTGGGATGATCTCATTAATAAG 1140  
Db 1081 ATGAGATTAAGATCATGTCTTCTTCTTAAATTAACCTGGGATGATCTCATTAATAAG 1140  
Qy 1141 AAGATTACTCCCTTTTAAACCAAAATGAGTGGGCCCAACGAGCTACGGCACTTTGAC 1200  
Db 1141 AAGATTACTCCCTTTTAAACCAAAATGAGTGGGCCCAACGAGCTACGGCACTTTGAC 1200  
Qy 1201 CCCGAGTTTACGGAAGGCTGTCCCAACTCCATTGGCAAGTCCCTGACAGGCTCTTC 1260  
Db 1201 CCCGAGTTTACGGAAGGCTGTCCCAACTCCATTGGCAAGTCCCTGACAGGCTCTTC 1260

Qy 1261 GTCAAGCCAGCGTCAAGGAAGTCCCGAGGCTTTCTTAGGCTTTTCTATGCGCTCC 1320  
Db 1261 GTCAAGCCAGCGTCAAGGAAGTCCCGAGGCTTTCTTAGGCTTTTCTATGCGCTCC 1320  
Qy 1321 ACGGACTCTTTCTCTGAACCCCTGTAGGCTTTGGTTTAAAGGATTTTATGTGTCTTC 1380  
Db 1321 ACGGACTCTTTCTCTGAACCCCTGTAGGCTTTGGTTTAAAGGATTTTATGTGTCTTC 1380  
Qy 1381 CGAATGTTTTAGTTAGCCCTTTTGGTGGAGCCGCCAGCTGACAGGACATCTTACAAGAGAA 1440  
Db 1381 CGAATGTTTTAGTTAGCCCTTTTGGTGGAGCCGCCAGCTGACAGGACATCTTACAAGAGAA 1440  
Qy 1441 TTTTGCACATCTCTGGAAGCTTAGCAATCTTATGACACACTGTTCGCTGAAATTTTGA 1500  
Db 1441 TTTTGCACATCTCTGGAAGCTTAGCAATCTTATGACACACTGTTCGCTGAAATTTTGA 1500  
Qy 1501 GAGCACATCTCTCAGTGAGCTCATGAGTTTTCATTTTATTTCTTCTTCCAAAGCTGG 1560  
Db 1501 GAGCACATCTCTCAGTGAGCTCATGAGTTTTCATTTTATTTCTTCTTCCAAAGCTGG 1560  
Qy 1561 TGCTATCTCTGAAACGAGCGTTAGAGTCCGCTTTAGACGGAGGAGGAGTTTCGTTAGA 1620  
Db 1561 TGCTATCTCTGAAACGAGCGTTAGAGTCCGCTTTAGACGGAGGAGGAGTTTCGTTAGA 1620  
Qy 1621 AAGCGGACTCTCTTAAAGGCTCTCTGACAGATCTCTGCGGTGTGATGACGAATAT 1680  
Db 1621 AAGCGGACTCTCTTAAAGGCTCTCTGACAGATCTCTGCGGTGTGATGACGAATAT 1680  
Qy 1681 TATGAAATGTCCTTTCTGAAAGATTTGTAGTCTCAAGCTTTTCTATCCAGTG 1740  
Db 1681 TATGAAATGTCCTTTCTGAAAGATTTGTAGTCTCAAGCTTTTCTATCCAGTG 1740  
Qy 1741 TTTTCACTTTTATTTTCCCTGTGGATATGCTGTGAAACCGCTGTGAGTGTGAT 1800  
Db 1741 TTTTCACTTTTATTTTCCCTGTGGATATGCTGTGAAACCGCTGTGAGTGTGAT 1800  
Qy 1801 GCCTGATCACAGATGATTTTGTATAGACATCAATGTGACACTTGCAGGACACTACAC 1860  
Db 1801 GCCTGATCACAGATGATTTTGTATAGACATCAATGTGACACTTGCAGGACACTACAC 1860  
Qy 1861 GTGGACATTTGTTTCTTCCATATTTGGAAGATAAATTTATGTGTAGACTTTTGT 1920  
Db 1861 GTGGACATTTGTTTCTTCCATATTTGGAAGATAAATTTATGTGTAGACTTTTGT 1920  
Qy 1921 AAGATACGTTTAAATACTAAATTTTGAATGGTCTTGCATGACTCGTATTGATG 1980  
Db 1921 AAGATACGTTTAAATACTAAATTTTGAATGGTCTTGCATGACTCGTATTGATG 1980  
Qy 1981 CCTAAAGAAAGCATTTGCTACAAATTTTCTATTTTGAAGGGTTTTATGAGCA 2040  
Db 1981 CCTAAAGAAAGCATTTGCTACAAATTTTCTATTTTGAAGGGTTTTATGAGCA 2040  
Qy 2041 ATGCCCCAGTTGTGCTCAGACGCGTTGGTGTCTTCACTTTTAAATGTCACTGTAA 2100  
Db 2041 ATGCCCCAGTTGTGCTCAGACGCGTTGGTGTCTTCACTTTTAAATGTCACTGTAA 2100  
Qy 2101 AATGGGCAATTTATGTTTTTTTTTTTGTGATTTGATTTGATTTGATTAAG 2160  
Db 2101 AATGGGCAATTTATGTTTTTTTTTTTGTGATTTGATTTGATTTGATTAAG 2160  
Qy 2161 AACGCTGTACATTTGATTAACACTAGTATATTTTAACTTACAGGCTTTTGTGATG 2220  
Db 2161 AACGCTGTACATTTGATTAACACTAGTATATTTTAACTTACAGGCTTTTGTGATG 2220  
Qy 2221 TAAACCACTTTTAACTGTACTGTAAATTAACATGTTTATATAGTACAATCTTCCCTC 2280  
Db 2221 TAAACCACTTTTAACTGTACTGTAAATTAACATGTTTATATAGTACAATCTTCCCTC 2280  
Qy 2281 ATCCCATCACAACTTTTGTGTGATAAATGATTTTGTGTTGCAATAAACCCTT 2340  
Db 2281 ATCCCATCACAACTTTTGTGTGATAAATGATTTTGTGTTGCAATAAACCCTT 2340



Db 1621 AAGCGACCTGTTCTAAAGAGGTCCTCTGCAGATCTGTCTGGCTGTGATGACGAATAT 1680  
Qy 1681 TATGAATGTCCTTTCTGAAGAGATCTGTGTAGCTCCAAAGCTTTCTCTATCGCAGTG 1740  
Db 1681 TATGAATGTCCTTTCTGAAGAGATCTGTGTAGCTCCAAAGCTTTCTCTATCGCAGTG 1740  
Qy 1741 TTTGAGTTCTTTATTTTCCCTTGTGGATGCTGTGTGAACCGTGTGTGAGTGTGTAT 1800  
Db 1741 TTTGAGTTCTTTATTTTCCCTTGTGGATGCTGTGTGAACCGTGTGTGAGTGTGTAT 1800  
Qy 1801 GCGTATCAGATGATTTCTTCAATTTTGAAGATAAATTTATGTGTAGACTTTTGTGT 1920  
Db 1861 GTGGACATTTGTTTCTTCAATTTTGAAGATAAATTTATGTGTAGACTTTTGTGT 1920  
Qy 1921 AGATACGGTTAATAAATAAATTTATTTGAAGATGCTGTGTGAGTGTGTAT 1980  
Db 1921 AGATACGGTTAATAAATAAATTTATTTGAAGATGCTGTGTGAGTGTGTAT 1980  
Qy 1981 CTTAAGAAAGCATGCTCTCAATAATTTCTTATTTTGAAGATGCTGTGTGAGTGT 2040  
Db 1981 CTTAAGAAAGCATGCTCTCAATAATTTCTTATTTTGAAGATGCTGTGTGAGTGT 2040  
Qy 2041 ATGCCCCAGTTGTCAGTCAGACCGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2100  
Db 2041 ATGCCCCAGTTGTCAGTCAGACCGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2100  
Qy 2101 AATGGGCAATTTATTTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2220  
Db 2101 AATGGGCAATTTATTTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2220  
Qy 2161 AACGTCGTGATGCTGT 2280  
Db 2161 AACGTCGTGATGCTGT 2280  
Qy 2281 TAAACCAATTTTATTTTGT 2340  
Db 2281 TAAACCAATTTTATTTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2340  
Qy 2341 GAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAA 2370  
Db 2341 GAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAA 2370

## RESULT 3

US-10-000-039-1

; Sequence 1, Application US/10000039

; Publication No. US20030003559A1

; GENERAL INFORMATION:

; APPLICANT: LANG, Florian

; WALTER, Florian

; TITLE OF INVENTION: CELL VOLUME-REGULATED HUMAN KINASE H-SK

; NUMBER OF SEQUENCES: 4

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: FOLEY &amp; LARDNER

; STREET: 3000 K Street, N.W.

; CITY: Washington

; STATE: D.C.

; COUNTRY: U.S.A.

; ZIP: 20007-5109

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent in Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/000,039  
FILING DATE: 04-Dec-2001  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/09/031,295  
FILING DATE: 26-FEB-1998  
APPLICATION NUMBER: DE 197-08-173.8  
FILING DATE: 28-FEB-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Sandercock, Colin G.  
REGISTRATION NUMBER: 31,298  
REFERENCE/DOCKET NUMBER: 058315/0123  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 672-5300  
TELEFAX: (202) 672-5399  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 2370 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 43..1335  
SEQUENCE DESCRIPTION: SEQ ID NO: 1:  
US-10-000-039-1

Query Match 100.0%; Score 2370; DB 15; Length 2370;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 2370; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 CACGAGGAGGAGCTTAACCTCTTTCTGTCTCCCGCGGTGGTGAATGACGGTGAATCGAG 60  
Db 1 CACGAGGAGGAGCTTAACCTCTTTCTGTCTCCCGCGGTGGTGAATGACGGTGAATCGAG 60  
Qy 61 GCTGTAGGAGGAGCTTAACCTCTTTCTGTCTCCCGCGGTGGTGAATGACGGTGAATCGAG 120  
Db 61 GCTGTAGGAGGAGCTTAACCTCTTTCTGTCTCCCGCGGTGGTGAATGACGGTGAATCGAG 120  
Qy 121 TTTATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 180  
Db 121 TTTATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 180  
Qy 181 TATGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 240  
Db 181 TATGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 240  
Qy 241 GAGCTTATGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 300  
Db 241 GAGCTTATGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 300  
Qy 301 CCGTGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 360  
Db 301 CCGTGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 360  
Qy 361 GGCAGTTTGGAGAGGTTCTTCTAGCAGACACACACACACACACACACACACACACACACACAC 420  
Db 361 GGCAGTTTGGAGAGGTTCTTCTAGCAGACACACACACACACACACACACACACACACACACAC 420  
Qy 421 AAAGTTTATGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 480  
Db 421 AAAGTTTATGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 480  
Qy 481 CGGAATGTTCTGTGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 540  
Db 481 CGGAATGTTCTGTGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 540  
Qy 541 CAGACTGCTGACAAATTTGTTCTAGCTAGCTAGCTAGCTAGCTAGCTAGCTAGCTAGCTAGCTAG 600  
Db 541 CAGACTGCTGACAAATTTGTTCTAGCTAGCTAGCTAGCTAGCTAGCTAGCTAGCTAGCTAGCTAG 600  
Qy 601 CATCTCCAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 660

Db 601 CAITCCAGAGGNAACGCTGCTTCTGGAACCGGCTCGTTCTATGCTGCTGAATA 660  
Qy 661 GCGAGTCCCTGGGCTACTGCAATCACTGCAATCACTGCAATCACTGCAATCACTGCAAT 720  
Db 661 GCGAGTCCCTGGGCTACTGCAATCACTGCAATCACTGCAATCACTGCAATCACTGCAAT 720  
Qy 721 AATATTTTGTAGATTCACAGGAGCATTGCTGCTTCTGCTGCTGCTGCTGCTGCTGCTGCT 780  
Db 721 AATATTTTGTAGATTCACAGGAGCATTGCTGCTTCTGCTGCTGCTGCTGCTGCTGCTGCT 780  
Qy 781 AACATTGAACACACAGCACAACATCCACTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 840  
Db 781 AACATTGAACACACAGCACAACATCCACTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 840  
Qy 841 GAGTGCTTCATAGAGCCTTATGACAGGACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 900  
Db 841 GAGTGCTTCATAGAGCCTTATGACAGGACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 900  
Qy 901 TTGTATGAGATGCTGATGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 960  
Db 901 TTGTATGAGATGCTGATGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 960  
Qy 961 GACAACTTCTGAACAGCCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1020  
Db 961 GACAACTTCTGAACAGCCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1020  
Qy 1021 CTCCTGAGGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1080  
Db 1021 CTCCTGAGGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1080  
Qy 1081 ATGAGATTAAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1140  
Db 1081 ATGAGATTAAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1140  
Qy 1141 AAGATTACTCCCTCTTAAACCAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1200  
Db 1141 AAGATTACTCCCTCTTAAACCAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1200  
Qy 1201 CCCGAGTTTACGAGAGCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1260  
Db 1201 CCCGAGTTTACGAGAGCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1260  
Qy 1261 GTACAGCAGCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1320  
Db 1261 GTACAGCAGCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1320  
Qy 1321 ACGGACTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1380  
Db 1321 ACGGACTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1380  
Qy 1381 CGAATGTTTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1440  
Db 1381 CGAATGTTTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1440  
Qy 1441 TTTCGACATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1500  
Db 1441 TTTCGACATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1500  
Qy 1501 GAGCAGATCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1560  
Db 1501 GAGCAGATCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1560  
Qy 1561 TGCTATCTGCT 1620  
Db 1561 TGCTATCTGCT 1620  
Qy 1621 AAGCGGACTGCT 1680  
Db 1621 AAGCGGACTGCT 1680  
Qy 1681 TATGAATGCT 1740

Db 1681 TATGAATGCT 1740  
Qy 1741 TTTTCACTTCTTATTTTCCCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1800  
Db 1741 TTTTCACTTCTTATTTTCCCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1800  
Qy 1801 GCTGATCACAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1860  
Db 1801 GCTGATCACAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1860  
Qy 1861 GTGGGACATTTGTTTCTTCCATATTTGGAAGATAAATTTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1920  
Db 1861 GTGGGACATTTGTTTCTTCCATATTTGGAAGATAAATTTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1920  
Qy 1921 AAGTACGCTTAACTAAATTTTGAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1980  
Db 1921 AAGTACGCTTAACTAAATTTTGAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1980  
Qy 1981 CCTAAGAAAGCATTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2040  
Db 1981 CCTAAGAAAGCATTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2040  
Qy 2041 ATGCCCGAGTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2100  
Db 2041 ATGCCCGAGTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2100  
Qy 2101 AATGGGCAATTTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2160  
Db 2101 AATGGGCAATTTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2160  
Qy 2161 AACTGCT 2220  
Db 2161 AACTGCT 2220  
Qy 2221 TAAACCAACCTTTTAACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2280  
Db 2221 TAAACCAACCTTTTAACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2280  
Qy 2281 ATCCCATCACACACTTTTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2340  
Db 2281 ATCCCATCACACACTTTTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2340  
Qy 2341 GAAAAATAAAAAAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2370  
Db 2341 GAAAAATAAAAAAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2370

## RESULT 4

US-10-353-690-11  
; Sequence 11, Application US/10353690  
; Publication No. US20030215840A1  
; GENERAL INFORMATION:  
; APPLICANT: Logan, Thomas Joseph  
; APPLICANT: Chun, Miyoung  
; APPLICANT: Galvin, Katherine M.  
; APPLICANT: Healy, Aileen  
; APPLICANT: Acton, Susan J.  
; APPLICANT: Donoghue, Mary  
; APPLICANT: Stagliano, Nancy  
; APPLICANT: Perodin, Jacqueline  
; APPLICANT: Rodrigue-Way, Amelie  
; TITLE OF INVENTION: Methods and compositions for treating  
; TITLE OF INVENTION: Cardiovascular disease using 1682, 6169, 6193, 7771, 14395,  
; TITLE OF INVENTION: 29002, 33216, 43726, 69292, 26156, 32427, 2402, 7747, 1720,  
; TITLE OF INVENTION: 9151, 60491, 1371, 7077, 33207, 1419, 18036, 16105, 38650,  
; TITLE OF INVENTION: 14245, 58848, 1870, 25856, 32394, 3484, 345, 9252, 9135,  
; TITLE OF INVENTION: 10532, 18610, 8165, 2448, 2445, 64624, 84237, 8912, 2868,  
; TITLE OF INVENTION: 283, 2554, 9464, 17799, 26886, 43848, 32135, 12208, 2314,  
; TITLE OF INVENTION: 51130, 19489, 21833, 2917, 59590, 15992, 2094, 2258, 3474,  
; FILE REFERENCE: MPI02-018P1RNMNMIM  
; CURRENT APPLICATION NUMBER: US/10/353,690  
; CURRENT FILING DATE: 2003-01-29



; PRIOR APPLICATION NUMBER: 60/353,224
; PRIOR FILING DATE: 2002-02-01
; PRIOR APPLICATION NUMBER: 60/364,529
; PRIOR FILING DATE: 2002-03-15
; PRIOR APPLICATION NUMBER: 60/373,861
; PRIOR FILING DATE: 2002-04-19
; PRIOR APPLICATION NUMBER: 60/376,287
; PRIOR FILING DATE: 2002-04-29
; PRIOR APPLICATION NUMBER: 60/388,080
; PRIOR FILING DATE: 2002-06-12
; PRIOR APPLICATION NUMBER: 60/390,971
; PRIOR FILING DATE: 2002-06-24
; PRIOR APPLICATION NUMBER: 60/394,130
; PRIOR FILING DATE: 2002-07-03
; PRIOR APPLICATION NUMBER: 60/394,797
; PRIOR FILING DATE: 2002-07-10
; PRIOR APPLICATION NUMBER: 60/404,904
; PRIOR FILING DATE: 2002-08-21
; PRIOR APPLICATION NUMBER: 60/405,450
; PRIOR FILING DATE: 2002-08-23
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 126
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 2370
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-10-353-690-11

Query Match 100.0%; Score 2370; DB 16; Length 2370;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2370; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CACGAGGAGCGCTAACGCTTTTCGTCTCCCGCGGTGTGATGACGGTGAAGACTGAG 60
DB 1 CACGAGGAGCGCTAACGCTTTTCGTCTCCCGCGGTGTGATGACGGTGAAGACTGAG 60

QY 61 GCTGTAAAGGACCCCTCACTTACTCCAGGATGAGGGGCATGGTGGCAATTCATCGCT 120
DB 61 GCTGTAAAGGACCCCTCACTTACTCCAGGATGAGGGGCATGGTGGCAATTCATCGCT 120

QY 121 TTCATGACGACGAGAGATGGGTCTGAACGATCTTATTCAGAGATTGCCAATTAATCC 180
DB 121 TTCATGACGACGAGAGATGGGTCTGAACGATCTTATTCAGAGATTGCCAATTAATCC 180

QY 181 TATGATGCAAAACCCCTCAAGTTCAGTCCATCTTGAAGATCTCCCAACCTCAGAGCCT 240
DB 181 TATGATGCAAAACCCCTCAAGTTCAGTCCATCTTGAAGATCTCCCAACCTCAGAGCCT 240

QY 241 GAGCTTATGAATGCCAACCCCTCTCTCCACCAAGTCTTCTCAGCAAAATCAACCTTGGC 300
DB 241 GAGCTTATGAATGCCAACCCCTCTCTCCACCAAGTCTTCTCAGCAAAATCAACCTTGGC 300

QY 301 CGGTGTCATCTCATCTGCTAAACCATCTGACTTTCATCTTGAAGATGATCGGAAG 360
DB 301 CGGTGTCATCTCATCTGCTAAACCATCTGACTTTCATCTTGAAGATGATCGGAAG 360

QY 361 GGCAGTTTGGAAAGGTTCTTCTAGCAAGACACAGGCGAGAAAGTGTCTATGCACTC 420
DB 361 GGCAGTTTGGAAAGGTTCTTCTAGCAAGACACAGGCGAGAAAGTGTCTATGCACTC 420

QY 421 AAAGTTTTCAGAGAAAGCAATCTGAAAGAAAGAAAGGAGAGCAATATTATGTCGGAG 480
DB 421 AAAGTTTTCAGAGAAAGCAATCTGAAAGAAAGAAAGGAGAGCAATATTATGTCGGAG 480

QY 481 CGGATGTTCTGTTGAAGATGAGCAACCTTTCCTGGTGGGCTTCATCTCTCTTC 540
DB 481 CGGATGTTCTGTTGAAGATGAGCAACCTTTCCTGGTGGGCTTCATCTCTCTTC 540

QY 541 CAGACTGTGACAAATTTGACTTTCTCTAGACTACATTAATGTTGGGAGGTTGTTCTAC 600
DB 541 CAGACTGTGACAAATTTGACTTTCTCTAGACTACATTAATGTTGGGAGGTTGTTCTAC 600

QY 601 CATCTCCAGAGGAAACGGTCTCTCTGGAACCAACGGGCTCGTTTCTATCTGCTGAAATA 660
DB 601 CATCTCCAGAGGAAACGGTCTCTCTGGAACCAACGGGCTCGTTTCTATGCTGTAATA 660

QY 661 GCCAGTGCCTTGGGCTAAGTCAATTCATCTGAACATCGTTTATAGAGATTAAACAGAG 720
DB 661 GCCAGTGCCTTGGGCTAAGTCAATTCATCTGAACATCGTTTATAGAGATTAAACAGAG 720

QY 721 AATATTTTGTAGATTACAGGACACATTTCTTCTACTGATTTCGGACTCTGCAAGGAG 780
DB 721 AATATTTTGTAGATTACAGGACACATTTCTTCTACTGATTTCGGACTCTGCAAGGAG 780

QY 781 AACATTGAACACACAGACACATCTCCACCTTCTCTGGCACGCCCGAGTATCTCGACCT 840
DB 781 AACATTGAACACACAGACACATCTCCACCTTCTCTGGCACGCCCGAGTATCTCGACCT 840

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DB 841 GAGGTGCTTCAAGACGCTTATGACAGGACTGTGGAAGTGTGCTGGTGTGCTGGAGCTGTC 900

QY 901 TTGTATGAGATGCTGTATGGCTGCGCTTTTATAGCCGAAACACAGCTGAATGTAC 960
DB 901 TTGTATGAGATGCTGTATGGCTGCGCTTTTATAGCCGAAACACAGCTGAATGTAC 960

QY 961 GACAACTTCTGAACACAGACCTCTCCAGCTGAAACCAAAATATTACAAATTCGCCAAGACAC 1020
DB 961 GACAACTTCTGAACACAGACCTCTCCAGCTGAAACCAAAATATTACAAATTCGCCAAGACAC 1020

QY 1021 CTCCTGGAGGGCTCTCTGCAAGAGACAGGACAAAGCGGCTCGGGGCCAAGGATGACTTC 1080
DB 1021 CTCCTGGAGGGCTCTCTGCAAGAGACAGGACAAAGCGGCTCGGGGCCAAGGATGACTTC 1080

QY 1081 ATGGAGATTAAAGATCATGCTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 1140
DB 1081 ATGGAGATTAAAGATCATGCTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 1140

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QY 1201 CCGAGTTTACGGAAGACCTGTCCCAATCTCAATTTGGCAAGTCCCTTGACAGGCTCCTC 1260
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DB 1381 CGAATGTTTATAGCTTGTGGAGCGCCAGCTGACAGGACATCTTCAAGAGAA 1440

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DB 1621 AAGCGGACCTCTTCTTAAAGAGGCTCTCTGAGATCTGTCTGGGCTGTGATGACGAAT 1680

QY 1681 TATGAAATGTCCTTTTCTGAAAGAGATTGTGTAGTCCAAAGCTTTTCTTATCGCAGTG 1740



1681	Db	TATGAATGTCCTTTTCTGAAGAGATGTGTAGCTCCAAAGCTTTTCCTATCGCAGTG	1740
1741	Qy	TTTCAGTTCTTTATTTTCCCTGTGGGATAGCTGTGTGAACCGTCGTGCAGTGTGGTAT	1800
1741	Db	TTTCAGTTCTTTATTTTCCCTGTGGGATAGCTGTGTGAACCGTCGTGCAGTGTGGTAT	1800
1801	Qy	GCCTGATCAGAGATGGATTTTGTATTAAAGCATCAATGTGACACTTGCAGGACACTACAAC	1860
1801	Db	GCCTGATCAGAGATGGATTTTGTATTAAAGCATCAATGTGACACTTGCAGGACACTACAAC	1860
1861	Qy	GTGGGACATTTGTTTGTCTTCCATATTTGGAGATAAAATATATGTGTAGACTTTTGTGT	1920
1861	Db	GTGGGACATTTGTTTGTCTTCCATATTTGGAGATAAAATATATGTGTAGACTTTTGTGT	1920
1921	Qy	AAGATACGGTTAATAAATAAAATTTATGAAATGGTCTTCCAATGACTCGTATTACAGATG	1980
1921	Db	AAGATACGGTTAATAAATAAAATTTATGAAATGGTCTTCCAATGACTCGTATTACAGATG	1980
1981	Qy	CCTAAAGAAAGCATGTGTCTACAAAATATTTCTATTTTAAAGGGTTTTTATGAGACCA	2040
1981	Db	CCTAAAGAAAGCATGTGTCTACAAAATATTTCTATTTTAAAGGGTTTTTATGAGACCA	2040
2041	Qy	ATGCCCCAGTTGTACAGTCAGACGCCGTGTGTGTTCATTTGTTTAAAAATGTCACCTGTAA	2100
2041	Db	ATGCCCCAGTTGTACAGTCAGACGCCGTGTGTGTTCATTTGTTTAAAAATGTCACCTGTAA	2100
2101	Qy	AATGGGCATTATTTATGTTTTTTTTTTTGTGCATTCCTGATAATGTATGTATTGTATAAAG	2160
2101	Db	AATGGGCATTATTTATGTTTTTTTTTTTGTGCATTCCTGATAATGTATGTATAAAG	2160
2161	Qy	AAGCTCTGTATCATTTGGGTTATAACACATGATATATTTAAACCTTACAGGCTTATTTGTAATG	2220
2161	Db	AAGCTCTGTATCATTTGGGTTATAACACATGATATATTTAAACCTTACAGGCTTATTTGTAATG	2220
2221	Qy	TAAACCAACCAATTTTAAAGTACTGTGTAATTAACATGGTTATTAATAGGTACAAATCCTTCCTC	2280
2221	Db	TAAACCAACCAATTTTAAAGTACTGTGTAATTAACATGGTTATTAATAGGTACAAATCCTTCCTC	2280
2281	Qy	ATCCCATCACACAACCTTTTTTTGTGTGTGATAAACTGATTTTGGTTTGGCAATAAAACCTT	2340
2281	Db	ATCCCATCACACAACCTTTTTTTGTGTGTGATAAACTGATTTTGGTTTGGCAATAAAACCTT	2340
2341	Qy	GAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA	2370
2341	Db	GAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA	2370

## RESULT 5

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US/10-403-161-1
; Sequence 1, Application US/10403161
; Publication No. US20040043930A1
; GENERAL INFORMATION:
; APPLICANT: Anderson, David et al.
; TITLE OF INVENTION: NOVEL PROTEINS AND NUCLEIC ACIDS ENCODING SAME
; FILE REFERENCE: 21402-573C
; CURRENT APPLICATION NUMBER: US/10/403,161
; CURRENT FILING DATE: 2003-03-31
; PRIOR APPLICATION NUMBER: 60/370349
; PRIOR FILING DATE: 2002-04-05
; PRIOR APPLICATION NUMBER: 60/384543
; PRIOR FILING DATE: 2002-05-30
; PRIOR APPLICATION NUMBER: 60/370969
; PRIOR FILING DATE: 2002-04-08
; PRIOR APPLICATION NUMBER: 60/403748
; PRIOR FILING DATE: 2002-08-15
; PRIOR APPLICATION NUMBER: 60/372019
; PRIOR FILING DATE: 2002-04-12
; PRIOR APPLICATION NUMBER: 60/374379
; PRIOR FILING DATE: 2002-04-22
; PRIOR APPLICATION NUMBER: 09/779679
; PRIOR FILING DATE: 2001-02-08
; PRIOR APPLICATION NUMBER: 60/181045

```

QY 788 AACACAAACAGCAACATCCACTTCTGTGGCAGCCGCGAGTATCTCGCACCTGAGGTGC 847  
Db 781 AACACAAACAGCAACATCCACTTCTGTGGCAGCCGCGAGTATCTCGCACCTGAGGTGC 840  
QY 848 TTCATAAGCAGCCTTATGACAGACATGCTGGAGCTGTCTGTGATG 907  
Db 841 TTCATAAGCAGCCTTATGACAGACATGCTGGAGCTGTCTGTGATG 900  
QY 908 AGATGCTGTATGCGCCTGCGCCCTTTTATAGCGGAAACACACAGTGAATGTACGACAAC 967  
Db 901 AGATGCTGTATGCGCCTGCGCCCTTTTATAGCGGAAACACAGTGAATGTACGACAAC 960  
QY 968 TTCTGAACAAAGCCTCTCCAGCTGAACACCAATATTAACAATTCGCAACACCTCCTGG 1027  
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QY 1028 AGGGCTCTGAGAGGACAGGACAAAGCGGCTGGGGCCAAAGGATGACTTCAAGGAG 1087  
Db 1021 AGGGCTCTGAGAGGACAGGACAAAGCGGCTGGGGCCAAAGGATGACTTCAAGGAG 1080  
QY 1088 TTAAGAGTCATGCTCTTCTCTCTTAATTAACCTGGGATGATCTCAATTAAGAGATTA 1147  
Db 1081 TTAAGAGTCATGCTCTTCTCTCTTAATTAACCTGGGATGATCTCAATTAAGAGATTA 1140  
QY 1148 CTCGCCCTTTTAACCCAAATGTAGTGGGCCCAACGAGCTACGGCACTTTGACCCCGAGT 1207  
Db 1141 CTCGCCCTTTTAACCCAAATGTAGTGGGCCCAACGAGCTACGGCACTTTGACCCCGAGT 1200  
QY 1208 TTACCGAGAGCCTGTCCCAACTCCATTGGCAAGTCCCTGACAGGCTCTGTCACAG 1267  
Db 1201 TTACCGAGAGCCTGTCCCAACTCCATTGGCAAGTCCCTGACAGGCTCTGTCACAG 1260  
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QY 1328 CTTTCCTCGAACCCCTGTGAGGCTTGGTTTTAAAGGATTTTATGTGTGTTTTCCGAATG 1387  
Db 1321 CTTTCCTCGAACCCCTGTGAGGCTTGGTTTTAAAGGATTTTATGTGTGTTTTCCGAATG 1380  
QY 1388 TTTAGTTAGCCTTTTGGTGGAGCGCGCAGCTGACAGGACATCTTCAAGAGAAATTTGCAC 1447  
Db 1381 TTTAGTTAGCCTTTTGGTGGAGCGCGCAGCTGACAGGACATCTTCAAGAGAAATTTGCAC 1440  
QY 1448 ATCTCTGGAAGCTTAGCAATCTTATTGGCACATGTTGCTGTGAA-TTTTTTTCAAGAGCAC 1506  
Db 1441 ATCTCTGGAAGCTTAGCAATCTTATTGGCACATGTTGCTGTGAAAGCTTTTGAAGAGCAC 1500  
QY 1507 ATTCTCCTCAGTGAGCTCANTAGGTTTTCAATTTTATTCTTCTTCCACGTTGCTAT 1566  
Db 1501 ATTCTCCTCAGTGAGCTCANTAGGTTTTCAATTTTATTCTTCTTCCACGTTGCTAT 1560  
QY 1567 CTCGAAACGAGCTTAGTGCGCCCTTAGCGGAGGAGGTTTCTGTTAGAAGCGG 1626  
Db 1561 CTCGAAACGAGCTTAGTGCGCCCTTAGCGGAGGAGGTTTCTGTTAGAAGCGG 1620  
QY 1627 AC-CTGTTCTAAAAAGGCTCCTCGAGATCTGTCTGGGCTGTGATGACGAATATTATGA 1685  
Db 1621 AGCTGTCTCTAAAAAGGCTCCTCGAGATCTGTCTGGGCTGTGATGACGAATATTATGA 1680  
QY 1686 AATGTCCTTTTCTGAAGAGATGTGTAGCTCCAAAGCTTTTCTATGCGAGTGTTC 1745  
Db 1681 AATGTCCTTTTCTGAAGAGATGTGTAGCTCCAAAGCTTTTCTATGCGAGTGTTC 1740  
QY 1746 GTTCTTTTATTTTCCCTTGTGGATATGCTGTGTGAACCGTGTGAGTGTGTATGCGCTG 1805  
Db 1741 GTTCTTTTATTTTCCCTTGTGGATATGCTGTGTGAACCGTGTGAGTGTGTATGCGCTG 1800  
QY 1806 ATCAGATGGAATTTTGTATTAAGCATCAATGTGACACTTTCGAGGACACTCAACGCTGGG 1865  
Db 1801 ATCAGATGGAATTTTGTATTAAGCATCAATGTGACACTTTCGAGGACACTCAACGCTGGG 1860  
QY 1866 ACATTTGTTGTTCTTCCATTTTGGAGATATAAATTTATGTGTAGACTTTTTTGTGAAGAT 1925

Db 1861 ACATTTGTTGTTCTTCCATATTTTGGAGATATAATTTATGTGTAGACTTTTTTGTGAAGAT 1920  
QY 1926 AGGGTTAATAAATAAAATTTATTTGAAATGGTCTTGGCAATGACTCGTATTTAGATGCTTAA 1985  
Db 1921 AGGGTTAATAAATAAAATTTATTTGAAATGGTCTTGGCAATGACTCGTATTTAGATGCTTAA 1980  
QY 1986 AGAAAGCAATGCTGTACAAATATTTCTATTTTATTTTGAAGGGTTTTTATGGACCAATGCC 2045  
Db 1981 AGAAAGCAATGCTGTACAAATATTTCTATTTTATTTTGAAGGGTTTTTATGGACCAATGCC 2040  
QY 2046 CCAGTTGTGAGTCAGAGCGGTTGGTGTGTTTTCATTTGTTTAAATGTCACTGTAAAAATGG 2105  
Db 2041 CCAGTTGTGAGTCAGAGCGGTTGGTGTGTTTTCATTTGTTTAAATGTCACTGTAAAAATGG 2100  
QY 2106 GCATTTATTTATGTTTTTTTTTTTTTGGCATCTCTGATTAATGCTATTTATTAAGAACGT 2165  
Db 2101 GCATTTATTTATGTTTTTTTTTTTTTGGCATCTCTGATTAATGCTATTTATTAAGAACGT 2160  
QY 2166 CTGTACATTTGGGTTATAACACTAGTATATTTAAACTTTACAGGCTTATTTGTAATGTAAC 2225  
Db 2161 CTGTACATTTGGGTTATAACACTAGTATATTTAAACTTTACAGGCTTATTTGTAATGTAAC 2220  
QY 2226 CACCAATTTAATGTACTGTAAATTAACATGGTTTATTAATACGTACAATCTCTCCCTCATCCC 2285  
Db 2221 CACCAATTTAATGTACTGTAAATTAACATGGTTTATTAATACGTACAATCTCTCCCTCATCCC 2280  
QY 2286 ATCACACAACTTTTTTGTGTGTGATAAACAATGTTTGGTTTGGTAATAAAACCTTGAANA 2345  
Db 2281 ATCACACAACTTTTTTGTGTGTGATAAACAATGTTTGGTTTGGTAATAAAACCTTGAANA 2340  
QY 2346 ATA 2348  
Db 2341 ATA 2343

## RESULT 6

US-10-210-120-22  
; Sequence 22, Application US/10210120  
; Publication No. US20030175736A1  
; GENERAL INFORMATION:  
; APPLICANT: Chinmaiyan, Arul M.  
; APPLICANT: Rubin, Mark A.  
; APPLICANT: Sreekumar, Arun  
; TITLE OF INVENTION: Expression Profile of Prostate Cancer  
; FILE REFERENCE: UM-07221  
; CURRENT APPLICATION NUMBER: US/10/210,120  
; CURRENT FILING DATE: 2002-08-01  
; PRIOR APPLICATION NUMBER: US 60/309,581  
; PRIOR FILING DATE: 2001-08-02  
; PRIOR APPLICATION NUMBER: US 60/334,468  
; PRIOR FILING DATE: 2001-11-15  
; NUMBER OF SEQ ID NOS: 123  
; SOFTWARE: Patent in version 3.2  
; SEQ ID NO 22  
; LENGTH: 2354  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-210-120-22

Query Match 97.6%; Score 2312.6; DB 15; Length 2354;  
Best Local Similarity 99.7%; Pred. No. 0;  
Matches 2337; Conservative 0; Mismatches 4; Indels 2; Gaps 2;

QY 8 GAGCGCTAACGCTCTTCTGTTCTCCCGCGGTGGTGATGACGGTGAATACTGAGGCTGCTA 67  
Db 8 GAGCGCTAACGCTCTTCTGTTCTCCCGCGGTGGTGATGACGGTGAATACTGAGGCTGCTA 67  
QY 68 AGGGCACCCCTCACTTACTTCCAGGATGAGGGCATGGTGGCAATTCCTATCGCTTTTCATGA 127  
Db 68 AGGGCACCCCTCACTTACTTCCAGGATGAGGGCATGGTGGCAATTCCTATCGCTTTTCATGA 127  
QY 128 AGCAGAGGAGGATGGGTCTGAACGACTTTTATTCAGAGAGATTGCCAATAACTCCTATGCA 187

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548 CTGCAAAATTTGACTTTGCTCTAGACTACATTAATGCTGGAGAGTGTCTTACCAATCTCC 607  
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1208 TTACCGAAGAGCCTGCTCCCAACTCCATTTGGCAAGTCCCTCTGACAGGCTCTCTGTCACAG 1267  
1268 CAGCGCTCAAGGAAGCTGCGGAGCTTTCCTAGGCTTTTCCCTATGCGCTCCCAACGAGCT 1327  
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1686 AATGTGCTCTTCTGAAGAGATTTGTTAGTCTCTCAAGCTTTTCCCTATGCGAGTGTTC 1745  
1688 AATGTGCTCTTCTGAAGAGATTTGTTAGTCTCTCAAGCTTTTCCCTATGCGAGTGTTC 1747  
1746 GTTCTTTATTTTCCCTTGTGAGATGCTGTGTGAACCGCTGTGAGTGTGATGCTG 1805  
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1806 ATCAAGATGGAATTTGTTATAGCATCAATGTGACACTTTCAGGACACTACACAGTGGG 1865  
1808 ATCAAGATGGAATTTGTTATAGCATCAATGTGACACTTTCAGGACACTACACAGTGGG 1867  
1866 ACATTGTTGTTTCTTCCATATTTGGAAGATAAATTTATGTGTAGACTTTTTCGTAAGAT 1925  
1868 ACATTGTTGTTTCTTCCATATTTGGAAGATAAATTTATGTGTAGACTTTTTCGTAAGAT 1927  
1926 ACGGTTAATAACATAAATTTATTGAAATGTTCTTGAAGTCTGTAATGAGTGCCTAA 1985  
1928 ACGGTTAATAACATAAATTTATTGAAATGTTCTTGAAGTCTGTAATGAGTGCCTAA 1987  
1986 AGAAAGCATTTGCTCTACAAATATTTCTATTTTGAAGAGGTTTATGACCAATGCC 2045  
1988 AGAAAGCATTTGCTCTACAAATATTTCTATTTTGAAGAGGTTTATGACCAATGCC 2047  
2046 CCAGTGTGCTCAGAGCCGTTGGTGTGTTTCTATTTTGAAGAGGTTTATGACCAATGCC 2105  
2048 CCAGTGTGCTCAGAGCCGTTGGTGTGTTTCTATTTTGAAGAGGTTTATGACCAATGCC 2107  
2106 GCATTTATTAATGTTTTTTTTTTCATTTCTGATAAATGTAATGTAATGTAATGTAATG 2165  
2108 GCATTTATTAATGTTTTTTTTTTCATTTCTGATAAATGTAATGTAATGTAATGTAATG 2167  
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2168 CTGTACATTTGGTTTATTAACACTAGTATATTTTAAACTTACAGGCTTATTTGTAATGTAAC 2227  
2226 CACCATTTTAATGTAATTAACACTAGTATATTTTAAACTTACAGGCTTATTTGTAATGTAAC 2285  
2228 CACCATTTTAATGTAATTAACACTAGTATATTTTAAACTTACAGTACATCTCTCTCACTCC 2287  
2286 ATCACACAACCTTTTTTGTGTGATGAATGATTTTGGTTTGAATTAACCTTTGAAAAA 2345  
2288 ATCACACAACCTTTTTTGTGTGATGAATGATTTTGGTTTGAATTAACCTTTGAAAAA 2347

Qy	2346	ATA	2348
Db	2348	ATA	2350

## RESULT 7

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US-09-981-353-6
; Sequence 6, Application US/09981353
; Patent No. US20020160382A1
; GENERAL INFORMATION:
; APPLICANT: Jones, David A.
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER
; FILE REFERENCE: PA-0038 US
; CURRENT APPLICATION NUMBER: US/09/981,353
; CURRENT FILING DATE: 2001-10-11
; NUMBER OF SEQ ID NOS: 194
; SOFTWARE: PERL Program
; SEQ ID NO. 6
; LENGTH: 2365
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20020160382A1 3819039CE1
US-09-981-353-6

```

Query Match	97.2%	Score 2304.8	DB 9	Length 2365
Best Local Similarity	99.6%	Pred. No. 0		
Matches 2331	Conservative 0	Mismatches 7	Indels 2	Gaps 2
QY	8	GAGGCGTAAACGTCTTTCTGTCTCCCGCGGTGGTGATGACGGTGAACAACTGAGGCTGCTTA	67	
Db	26	GAGGCGTAAACGTCTTTCTGTCTCCCGCGGTGGTGATGACGGTGAACAACTGAGGCTGCTTA	85	
QY	68	AGGCGACCCCTCACTTACTCCAGGATGAGGGGCATGGTGCCAATTCTCATCGCTTTTCATGA	127	
Db	86	AGGCGACCCCTCACTTACTCCAGGATGAGGGGCATGGTGCCAATTCTCATCGCTTTTCATGA	145	
QY	128	AGCAGAGGAGATGGGTCGAAACGACTTTATTTCAGAGATTCGCAATACTCTTATGCGAT	187	
Db	146	AGCAGAGGAGATGGGTCGAAACGACTTTATTTCAGAGATTCGCAATACTCTTATGCGAT	205	
QY	188	GCAACACACCTCGAAGTTTCAGTCCATCTTGAAGATCTCCCAACCTCAGAGACCTGAGCTTA	247	
Db	206	GCAACACACCTCGAAGTTTCAGTCCATCTTGAAGATCTCCCAACCTCAGAGACCTGAGCTTA	265	
QY	248	TGAAATGCCAACCTTCTCTTCACGAAAGTCCTTCTCAGCAAAATCAAACCTTGGCCCGCTCGT	307	
Db	266	TGAAATGCCAACCTTCTCTTCACGAAAGTCCTTCTCAGCAAAATCAAACCTTGGCCCGCTCGT	325	
QY	308	CCAATCCTCATGCTAAACCAATCTGACTTTCACCTTCTTGAAGTGATCGGAAGGGCAGTT	367	
Db	326	CCAATCCTCATGCTAAACCAATCTGACTTTCACCTTCTTGAAGTGATCGGAAGGGCAGTT	385	
QY	368	TTGGAAGGTTCTTCTAGCAAGACACAAGCAGAGAAGTGTTCTATGCAAGTCAAAAGTTT	427	
Db	386	TTGGAAGGTTCTTCTAGCAAGACACAAGCAGAGAAGTGTTCTATGCAAGTCAAAAGTTT	445	
QY	428	TACAGAAGAAAGCAATCCTTGAAAAGAAAGAGAGAGACATATTATGTTCGGAGCGGAATG	487	
Db	446	TACAGAAGAAAGCAATCCTTGAAAAGAAAGAGAGAGACATATTATGTTCGGAGCGGAATG	505	
QY	488	TTCTGTTGAAGAAATGGAAGCACCCCTTTCCTGGTGGGCCCTTCACTTCTCTTTTCCAGACTG	547	
Db	506	TTCTGTTGAAGAAATGGAAGCACCCCTTTCCTGGTGGGCCCTTCACTTCTCTTTTCCAGACTG	565	
QY	548	CTGACAAAATTGACTTTTGTCTTAGACTACATTAATGGTGGAGAGTGTTGTTACACCTCC	607	
Db	566	CTGACAAAATTGACTTTTGTCTTAGACTACATTAATGGTGGAGAGTGTTGTTACACCTCC	625	
QY	608	AGAGGAAACGCTGCTTCCCTGGAAACCCAGGCTCGTTTCTATGCTGCTGAAATAGGCAGTG	667	





QY 814 TGTGGACGCCGAGTATCTCGACCTGAGTGTCTTCAATAGCAGCCTTATCAGAGGACT 873  
Db |||||  
QY 781 TGTGGACGCCGAGTATCTCGACCTGAGTGTCTTCAATAGCAGCCTTATCAGAGGACT 840  
Db |||||  
QY 874 GTGGACTGTGTGCTGGAGCTGTCTGTATGAGATGCTGTATGGCTGCGGCTTTT 933  
Db |||||  
QY 841 GTGGACTGTGTGCTGGAGCTGTCTGTATGAGATGCTGTATGGCTGCGGCTTTT 900  
Db |||||  
QY 934 TATAGCCGAAACACAGCTGAATGTACGACACATTTCTGAACAAGCCTTCCAGCTGAAA 993  
Db |||||  
QY 901 TATAGCCGAAACACAGCTGAATGTACGACACATTTCTGAACAAGCCTTCCAGCTGAAA 960  
Db |||||  
QY 994 CCAAAATATTACAAATTCGCGAAGACACCTCTCGAGGGCTCTCTGAGAAGGACAGGACA 1053  
Db |||||  
QY 961 CCAATATTACAAATTCGCGAAGACACCTCTCGAGGGCTCTCTGAGAAGGACAGGACA 1020  
Db |||||  
QY 1054 AAGCGGCTCGGGCCCAAGATGACTTTCATGAGATTAAGAGTCATGTCTTCTTCCCTTA 1113  
Db |||||  
QY 1021 AAGCGGCTCGGGCCCAAGATGACTTTCATGAGATTAAGAGTCATGTCTTCTTCCCTTA 1080  
Db |||||  
QY 1114 ATTAACCTGGATGATCTCATTAATAAGAGATTAAGAGTAAAGAGTAAAGAGTAAAGAGT 1173  
Db |||||  
QY 1081 ATTAACCTGGATGATCTCATTAATAAGAGATTAAGAGTAAAGAGTAAAGAGTAAAGAGT 1140  
Db |||||  
QY 1174 GGGCCCAACGAGCTACGGCACTTTGACCCCGAGTTTACGAGAGCCTGTCCCAACTCC 1233  
Db |||||  
QY 1141 GGGCCCAACGAGCTACGGCACTTTGACCCCGAGTTTACGAGAGCCTGTCCCAACTCC 1200  
Db |||||  
QY 1234 ATTGCAAGTCCCTGACAGAGTCTCTGTACAGCAGGCTCAAGAAAGCTGCGAGGCT 1293  
Db |||||  
QY 1201 ATTGCAAGTCCCTGACAGAGTCTCTGTACAGCAGGCTCAAGAAAGCTGCGAGGCT 1260  
Db |||||  
QY 1294 TTCCTAGGCTTTTCTATGGCTCCCGAGCTCTTCCCTGAGACCTGTAGGCGTT 1353  
Db |||||  
QY 1261 TTCCTAGGCTTTTCTATGGCTCCCGAGCTCTTCCCTGAGACCTGTAGGCGTT 1320  
Db |||||  
QY 1354 GGTTTTAAAGGATTTATGTGTGTTTCCGAATGTTTATGTTAGCTTTTGTGGAGCGCG 1413  
Db |||||  
QY 1414 CAGCTGACAGGACATCTTACAGAGAAATTTGCAATCTCTGGAAGCTTAGCAATCTTAAT 1473  
Db |||||  
QY 1381 CAGCTGACAGGACATCTTACAGAGAAATTTGCAATCTCTGGAAGCTTAGCAATCTTAAT 1440  
Db |||||  
QY 1474 GCACACTGTCTCGTGGAA- TTTTGTGGAAGACACATTTCTCTCAGTGAGCTCATGAGTT 1532  
Db |||||  
QY 1441 GCACACTGTCTCGTGGAAAGCTTTTGAAGAGACATTTCTCTCAGTGAGCTCATGAGTT 1500  
Db |||||  
QY 1533 TTCATTTTATTTCTTCTTCCAACTGCTGTCTCTGAAACGAGCGTTAGAGTGCOCG 1592  
Db |||||  
QY 1501 TTCATTTTATTTCTTCTTCCAACTGCTGTCTCTGAAACGAGCGTTAGAGTGCOCG 1560  
Db |||||  
QY 1593 CTTAGACGAGGACGAGGATTTGCTTAGAAGCGGAC-CTGTTCTAAAAAAGCTCTCTGC 1651  
Db |||||  
QY 1561 CTTAGACGAGGACGAGGATTTGCTTAGAAGCGGACGCTGTCTTAAAAAAGCTCTCTGC 1620  
Db |||||  
QY 1652 AGATCTGTCTGGCTGTGATGACGAAATATTATGAAATGTGCTTTTCTGAGAG-AGATTGT 1710  
Db |||||  
QY 1621 AGATCTGTCTGGCTGTGATGACGAAATATTATGAAATGTGCTTTTCTGAGAAATTTGT 1680  
Db |||||  
QY 1711 GTTAGCTCCAAAGCTTTTCTATCGCAGTGTTCAGTTCTTTATTTTCCCTTGTGGATAT 1770  
Db |||||  
QY 1681 GTTAGCTCCAAAGCTTTTCTATCGCAGTGTTCAGTTCTTTATTTTCCCTTGTGGATAT 1740  
Db |||||  
QY 1771 GCTGTGTGAACCGTGTGAGTGTGGTATGCTGATCAGAGGATTTGTTATAGC 1830  
Db |||||  
QY 1741 GCTGTGTGAACCGTGTGAGTGTGGTATGCTGATCAGAGTGGATTTTGTATAGC 1800  
Db |||||  
QY 1831 ATCAATGTGACACTTGCAGGACACTACAAACGTTGGGACATTTGTTTCTTCCATATTG 1890  
Db |||||  
QY 1801 ATCAATGTGACACTTGCAGGACACTACAAACGTTGGGACATTTGTTTCTTCCATATTG 1860  
Db |||||

QY 1891 GAAGATAAATTTATGTGTAGACTTTTGTGAAGATACGGTTAATAACATAAAATTTATTGA 1950  
Db |||||  
QY 1861 GAAGATAAATTTATGTGTAGACTTTTGTGAAGATACGGTTAATAACATAAAATTTATTGA 1920  
Db |||||  
QY 1951 AATGCTCTTGTCAATGACTCGTATTAGATGCTTAAAGAAAGCAATTTGCTGCTACAAATATT 2010  
Db |||||  
QY 1921 AATGCTCTTGTCAATGACTCGTATTAGATGCTTAAAGAAAGCAATTTGCTGCTACAAATATT 1980  
Db |||||  
QY 2011 TCTATTTTAGAAGGGTTTATGAGCAATGCCCCAGTTGCTCAGTCAGAGCCGCTGCT 2070  
Db |||||  
QY 1981 TCTATTTTAGAAGGGTTTATGAGCAATGCCCCAGTTGCTCAGTCAGAGCCGCTGCT 2040  
Db |||||  
QY 2071 GTTTTTCATGTTTAAATGTCACCTGTAAAATGGCATTTATGTTTTTTTTTTTTCG 2130  
Db |||||  
QY 2041 GTTTTTCATGTTTAAATGTCACCTGTAAAATGGCATTTATGTTTTTTTTTTTTCG 2100  
Db |||||  
QY 2131 ATTCTGTATAATGTATGTTATGATAAGAAACGCTCTGTACATTTGGTTATAACACTAGT 2190  
Db |||||  
QY 2101 ATTCTGTATAATGTATGTTATGATAAGAAACGCTCTGTACATTTGGTTATAACACTAGT 2160  
Db |||||  
QY 2191 ATATTTAAACTTACAGGCTTTATTTGTATGATAAGAAACGCTCTGTACATTTGGTTATAACACTAGT 2250  
Db |||||  
QY 2161 ATATTTAAACTTACAGGCTTTATTTGTATGATAAGAAACGCTCTGTACATTTGGTTATAACACTAGT 2220  
Db |||||  
QY 2251 CATGTTTATAATGACTACATCTCTCCCTCATCCCATCACACAACTTTTGTGTGTGA 2310  
Db |||||  
QY 2221 CATGTTTATAATGACGACATCTCTCCCTCATCCCATCACACAACTTTTGTGTGTGA 2280  
Db |||||  
QY 2311 TAAACTGATTTTGGTTTGCATAAATAAACCTTG 2341  
Db |||||  
QY 2281 TAAACTGATTTTGGTTTGCATAAATAAACCTTG 2311  
Db |||||

RESULT 9

US-10-305-720-772  
; Sequence 772, Application US/10305720  
; Publication No. US20040010136A1  
; GENERAL INFORMATION:  
; APPLICANT: Au-Young, Janice K.; Seilhamer, Jeffrey J.  
; TITLE OF INVENTION: Composition for the Detection of Signaling Pathway Gene Expression  
; FILE REFERENCE: PA-0002-1 CON  
; CURRENT APPLICATION NUMBER: US/10/305,720  
; CURRENT FILING DATE: 2002-11-26  
; PRIOR APPLICATION NUMBER: 09/016,434  
; PRIOR FILING DATE: 1998-01-30  
; NUMBER OF SEQ ID NOS: 1490  
; SOFTWARE: PERL Program  
; SEQ ID NO 772  
; LENGTH: 2311  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. US20040010136A1 477245  
; FEATURE:  
; NAME/KEY: unsure  
; LOCATION: (1)--- (2311)  
; OTHER INFORMATION: a, t, c, g, or other  
US-10-305-720-772

Query Match 95.5%; Score 2262.8; DB 16; Length 2311;  
Best Local Similarity 99.5%; Pred. No. 0;  
Matches 2300; Conservative 0; Mismatches 8; Indels 3; Gaps 3;  
QY 34 GCGGTGTGTATGACGCGTGAATAAATGAGGCTGTAAAGGCAACCTTCACTTACTCCAGGATG 93  
Db |||||  
QY 94 AGGGGCATGTGGCAATTTCTCATCGCTTTTCATGAGCAGAGGAGGATGGGTCTGCAACGAC 153  
Db |||||  
QY 61 AGGGGCATGTGGCAATTTCTCATCGCTTTTCAATGAGCAGAGGAGATGGGTCTGCAACGAC 120  
Db |||||  
QY 154 TTTATTGAGAAGATTGCGCAATAACTCTCTATGCTATGCAACACCCCTGAAATTCAGTCCATC 213

[illegible][illegible]

RESULT 10

US-10-094-749-222

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; Sequence 222, Application US/10094749
; Publication No. US20030219741A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: MAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KELLICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHICO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTOKYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: NOVEL FULL-LENGTH
; FILE REFERENCE: 084335/0160
; CURRENT APPLICATION NUMBER: US/10/09/09
; CURRENT FILING DATE: 2002-03-12
; PRIOR APPLICATION NUMBER: 60/350,435
; PRIOR FILING DATE: 2002-01-24
; PRIOR APPLICATION NUMBER: JP 2001-322
; PRIOR FILING DATE: 2001-09-14
; NUMBER OF SEQ ID NOS: 3381
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 222
; LENGTH: 3196
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-094-749-222

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Query Match	92.9%;	Score 2201;	DB 16;	Length 3196;
Best Local Similarity	99.7%;	Pred. No. 0;		
Matches 2226;	Conservative	0;	Mismatches 5;	Indels 2; Gaps 2;
QY	118	GCCTTCATGAAGCAGAGGAGGATGGGCTCGAAGACCTTATTCAGAGATTGCCAATAAC	177	
Db	959	GCCTTCATGAAGCAGAGGAGATGGGCTCGAAGACCTTATTCAGAGATTGCCAATAAC	1018	
QY	178	TCCTATGCATGCAAAACCCCTGAAGTTCAGTCCATCTTGAAGATCTCCCAACCTCAGGAG	237	
Db	1019	TCCTATGCATGCAAAACCCCTGAAGTTCAGTCCATCTTGAAGATCTCCCAACCTCAGGAG	1078	
QY	238	CCTGAGCTTATGAATGCAACCCCTTCCTCCACCAAGTCCTTCTCAGCAAAATCAACCTT	297	
Db	1079	CCTGAGCTTATGAATGCAACCCCTTCCTCCACCAAGTCCTTCTCAGCAAAATCAACCTT	1138	
QY	298	GGCCCGTCGTCCAACTCCTCATGTGTAAACCATCTGACCTTCACTCTTTGAAAGTGATCGGA	357	
Db	1139	GGCCCGTCGTCCAACTCCTCATGTGTAAACCATCTGACCTTCACTCTTTGAAAGTGATCGGA	1198	
QY	358	AAGGGCAGTTTTGGAAGAGTTCTTCTAGCAAGACACAAGGCAAGAAGTGTTCTATGCA	417	
Db	1199	AAGGGCAGTTTTGGAAGAGTTCTTCTAGCAAGACACAAGGCAAGAAGTGTTCTATGCA	1258	
QY	418	GTCAAAAGTTTTACAGAAGAAAGCAATCCTGAAAAGAAAGAGAGAGCATATATGTCG	477	
Db	1259	GTCAAAAGTTTTACAGAAGAAAGCAATCCTGAAAAGAAAGAGAGCATATATGTCG	1318	
QY	478	GAGCGGAAGTTCTGTTGAAGATGTGAAGCACCCCTTTCTCTGGTGGGCCCTTCACTTCTCT	537	
Db	1319	GAGCGGAAGTTCTGTTGAAGATGTGAAGCACCCCTTTCTCTGGTGGGCCCTTCACTTCTCT	1378	

QY	538	TTCCAGACTGCTGACAAATTTGTAATTGHCCTTAGACTACATTAATAGTGTGAGAGTTGTTC	597
DB	1379	TTCCAGACTGCTGACAAATTTGTAATTGTCCTTAGACTACATTAATAGTGTGAGAGTTGTTC	1438
QY	598	TACCATCTCCAGAGGGAACGCTGCTTCCTGGAACCAACGGCTCGTTTCTATGCTGCTGAA	657
DB	1439	TACCATCTCCAGAGGGAACGCTGCTTCCTGGAACCAACGGCTCGTTTCTATGCTGCTGAA	1498
QY	658	ATAGCCAGTGCCTTGGGCTACCTGCAATCACTGAACATCGTTTTATAGACTTTAAACCA	717
DB	1499	ATAGCCAGCGCTTGGGCTACCTGCAATCACTGAACATCGTTTTATAGACTTTAAACCA	1558
QY	718	GAGAAATATTTGCTAGATTTCAACAGGACACATTTGTCCTTACTGCAATTCGGACTCTCGAAG	777
DB	1559	GAGAAATATTTGCTAGATTTCAACAGGACACATTTGTCCTTACTGCAATTCGGACTCTCGAAG	1618
QY	778	GAGAAATTCGAAACACACACACAAATCCACCTTCTGTGGCACCGCGGAGTATCTCGCA	837
DB	1619	GAGAAATTCGAAACACACACACAAATCCACCTTCTGTGGCACCGCGGAGTATCTCGCA	1678
QY	838	CCTGAGTGTCTTCATAGAGACCTTTATGACAGACTGTGGAATGTTGTTGCTCTGGAGCT	897
DB	1679	CCTGAGTGTCTTCATAGAGACCTTTATGACAGACTGTGGAATGTTGTTGCTCTGGAGCT	1738
QY	898	GTCTTGTATGAGATGCTGTATGCTCGCCCTTTTATAGCCGAAACACAGCTGAAATG	957
DB	1739	GTCTTGTATGAGATGCTGTATGCTCGCCCTTTTATAGCCGAAACACAGCTGAAATG	1798
QY	958	TAGACAAATCTTGAAACAGCCTCTCCAGCTGAAACCAAATATTACAAATTCGCAAGA	1017
DB	1799	TAGACAAATCTTGAAACAGCCTCTCCAGCTGAAACCAAATATTACAAATTCGCAAGA	1858
QY	1018	CACCTCTCGAGGGCTCTCTGACAGAGACAGACAAAGGCTCGGGCCCAAGATGAC	1077
DB	1859	CACCTCTCGAGGGCTCTCTGACAGAGACAGACAAAGGCTCGGGCCCAAGATGAC	1918
QY	1078	TTCATGAGATTAAGAGTCAATGTCTTCTCTCTTAATTAACCTGGGATGATCTCAATAT	1137
DB	1919	TTCATGAGATTAAGAGTCAATGTCTTCTCTCTTAATTAACCTGGGATGATCTCAATAT	1978
QY	1138	AAGAAGATTAATCCCTTTTAAACCAATATGAGTGGGCCCAACGAGCTAGCGCACTTT	1197
DB	1979	AAGAAGATTAATCCCTTTTAAACCAATATGAGTGGGCCCAACGAGCTAGCGCACTTT	2038
QY	1198	GACCCGAGTTTACGGAAGCCTGTCCCCAACTCCATTTGGCAAGTCCCTGACACGCTC	1257
DB	2039	GACCCGAGTTTACGGAAGCCTGTCCCCAACTCCATTTGGCAAGTCCCTGACACGCTC	2098
QY	1258	CTGCTCAACGCCAGGCTCAAGGAAGCTGCGAGGCTTTCTTAGGCTTTTCTATGCGCT	1317
DB	2099	CTGCTCAACGCCAGGCTCAAGGAAGCTGCGAGGCTTTCTTAGGCTTTTCTATGCGCT	2158
QY	1318	CCACAGCATCTTTCTCTGAAACCCCTTTAGGCTTGGTTTAAAGGATTTTATGTGTG	1377
DB	2159	CCACAGCATCTTTCTCTGAAACCCCTTTAGGCTTGGTTTAAAGGATTTTATGTGTG	2218
QY	1378	TTCCGAATGTTTATGTAGCTTTTGGTGAGCCGACCTGACAGGACATCTTACAAGA	1437
DB	2219	TTCCGAATGTTTATGTAGCTTTTGGTGAGCCGACCTGACAGGACATCTTACAAGA	2278
QY	1438	GAAATTTGCACATCTCTGGAAGCTTTAGCAATCTTATTGACACTGTTCGCTGAA-TTTTT	1496
DB	2279	GAAATTTGCACATCTCTGGAAGCTTTAGCAATCTTATTGACACTGTTCGCTGAA-TTTTT	2338
QY	1497	TGAAGAGCACATTTCTCCTCAGTGAGCTCATGAGTTTTCATTTTATTTCTTCTTCCCAAC	1556
DB	2339	TGAAGAGCACATTTCTCCTCAGTGAGCTCATGAGTTTTCATTTTATTTCTTCTTCCCAAC	2398
QY	1557	GTGGTGTATCTCTGAAAACGAGGTTAGATGCCCGCTTAGACGGAAGCAGAGTTTCGT	1616
DB	2399	GTGGTGTATCTCTGAAAACGAGGTTAGATGCCCGCTTAGACGGAAGCAGAGTTTCGT	2458
QY	1617	TAGAAAACGAGAC-CTGTCTTAAAAAGGCTCTCTGCAGATCTGTCTGGGCTGTGATGAG	1675



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Db 2459 TAGAAGCGGAGCGCTGTTCTAAAGAGAGCTCCTCGAGATCGTCTGGCTGTCATGACG 2518
Qy 1676 AATATTATGAATGTCCTTTCTGAGAGAGATTGTGTAGCTCCAAAGCTTTTCTATCG 1735
Db 2519 AATATTATGAATGTCCTTTCTGAGAGAGATTGTGTAGCTCCAAAGCTTTTCTATCG 2578
Qy 1736 CAGTGTTCAGTTCCTTTATTTTCCCTTGTGATATGCTGTGAGAACCGTCTGTGAGTGT 1795
Db 2579 CAGTGTTCAGTTCCTTTATTTTCCCTTGTGATATGCTGTGAGAACCGTCTGTGAGTGT 2638
Qy 1796 GGTATGCTGATCAGATGGAATTTGTATPAAGCATCAATGTGACACTTTCAGGACACT 1855
Db 2639 GGTATGCTGATCAGATGGAATTTGTATPAAGCATCAATGTGACACTTTCAGGACACT 2698
Qy 1856 ACAAGTGGGACATGTTGTTCTTCATATTTGGAGATATAAATTTATGTGTAGACTTT 1915
Db 2699 ACAAGTGGGACATGTTGTTCTTCATATTTGGAGATATAAATTTATGTGTAGACTTT 2758
Qy 1916 TTCTGAAGATACGGTTAATAACTAAATTTTATGAAATGGTCTGCAATGACTCGTATTC 1975
Db 2759 TTCTGAAGATACGGTTAATAACTAAATTTTATGAAATGGTCTGCAATGACTCGTATTC 2818
Qy 1976 AGATGCTTAAAGAAAGCATTCGCTACAAATATTTCTATTTTGAAGAGGTTTTATG 2035
Db 2819 AGATGCTTAAAGAAAGCATTCGCTACAAATATTTCTATTTTGAAGAGGTTTTATG 2878
Qy 2036 GACCAATGCCCGAGTGTGAGTCAAGCCGTTGTTGTTTTCATGTTTAAATGTCAAC 2095
Db 2879 GACCAATGCCCGAGTGTGAGTCAAGCCGTTGTTGTTTTCATGTTTAAATGTCAAC 2938
Qy 2096 TGTAAGTGGCATTTATTTATGTTTCTTCTGATTTTCTGATTAATTTGATGATTTGTA 2155
Db 2939 TGTAAGTGGCATTTATTTATGTTTCTTCTGATTTTCTGATTAATTTGATGATTTGTA 2998
Qy 2156 TAAAGAACGCTGTFACATTTGGTTTATACACTAGTATATTTTAACTTACAGGCTTATTTG 2215
Db 2999 TAAAGAACGCTGTFACATTTGGTTTATACACTAGTATATTTTAACTTACAGGCTTATTTG 3058
Qy 2216 TAATGTAACACCATTTTAAATGTAATTAACATGATGTTTAAATGTAATGTAATGTA 2275
Db 3059 TAATGTAACACCATTTTAAATGTAATTAACATGATGTTTAAATGTAATGTAATGTA 3118
Qy 2276 CCCTCATCCCATCACAACTTTTGTGTGTCATATAAAGTATTTGTTTGGTTTGAATAAA 2335
Db 3119 CCCTCATCCCATCACAACTTTTGTGTGTCATATAAAGTATTTGTTTGGTTTGAATAAA 3178
Qy 2336 ACCTTGAAAAATA 2348
Db 3179 ACCTTGAAAAATA 3191
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## RESULT 11

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US-10-131-410-39
; Sequence 39, Application US/10131410
; Publication No. US20030235915A1
; GENERAL INFORMATION:
; APPLICANT: SPECHT, THOMAS
; APPLICANT: HINZMANN, BERNHARD
; APPLICANT: SCHMITT, ARMIN
; APPLICANT: PILARSKY, CHRISTIAN
; APPLICANT: DAHL, EDGAR
; APPLICANT: ROSENTHAL, ANDRE
; TITLE OF INVENTION: HUMAN NUCLEIC ACID SEQUENCES FROM TISSUE OF BREAST
; FILE OF INVENTION: TUMORS
; FILE REFERENCE: SCH-1763
; CURRENT APPLICATION NUMBER: US/10131.410
; CURRENT FILING DATE: 2002-04-25
; PRIOR APPLICATION NUMBER: 09/646,673
; PRIOR FILING DATE: 2000-09-20
; PRIOR APPLICATION NUMBER: PCT/DE99/00908
; PRIOR FILING DATE: 1999-03-19
; NUMBER OF SEQ ID NOS: 202
```

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; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 39
; LENGTH: 2281
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-131-410-39
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Query Match 90.3%; Score 2140.8; DB 16; Length 2281;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 2167; Conservative 0; Mismatches 7; Indels 2; Gaps 2;
```

```
Qy 195 CCCTGAAGTTCAGTCCCATCTTTGAAGATCTCCCAACCTTCAGGAGCCTGAGCTTATGAATGC 254
Db 95 CCCTGAAGTTCAGTCCCATCTTTGAAGATCTCCCAACCTTCAGGAGCCTGAGCTTATGAATGC 154
Qy 255 CAACCCCTTCCTCCCAAGTCTCTTCAGCAAAATCAACCTTGGCCGTCGTCCAATCC 314
Db 155 CAACCCCTTCCTCCCAAGTCTCTTCAGCAAAATCAACCTTGGCCGTCGTCCAATCC 214
Qy 315 TCATGCTAAACCATCTGACTTTTCACTTCTTGAAGTGTCTTATGCACTCAAGTTCACAGAA 374
Db 215 TCATGCTAAACCATCTGACTTTTCACTTCTTGAAGTGTCTTATGCACTCAAGTTCACAGAA 274
Qy 375 GGTTCTTCTAGCAAGACACAAGGCAGAGAAGTGTCTTATGCACTCAAGTTCACAGAA 434
Db 275 GGTTCTTCTAGCAAGACACAAGGCAGAGAAGTGTCTTATGCACTCAAGTTCACAGAA 334
Qy 435 GAAAGCAATCTGAAAAGAAAGAGAGAGATATTTATGTCGGAGCGGAATGTTCTGTT 494
Db 335 GAAAGCAATCTGAAAAGAAAGAGAGAGATATTTATGTCGGAGCGGAATGTTCTGTT 394
Qy 495 GAAGAAATGTAAGCACACCTTTCTGTTGGGCTTCACTTCTTCCAGACTGCTGACAA 554
Db 395 GAAGAAATGTAAGCACACCTTTCTGTTGGGCTTCACTTCTTCCAGACTGCTGACAA 454
Qy 555 ATTGTACTTTTCTAGACTACATTAATGTTGGAGAGTGTCTTACCATCTCCAGAGGGA 614
Db 455 ATTGTACTTTTCTAGACTACATTAATGTTGGAGAGTGTCTTACCATCTCCAGAGGGA 514
Qy 615 ACGTGTCTTCCTGAAACCAACCGGCTCGTTTCTATGCTGTAATAGCCAGTGCTTTGGG 674
Db 515 ACGTGTCTTCCTGAAACCAACCGGCTCGTTTCTATGCTGTAATAGCCAGTGCTTTGGG 574
Qy 675 CTACCTCATCTCACTGAACATCGTTTATAGAGACTTAAACCAGAGATATTTTGTCTAGA 734
Db 575 CTACCTCATCTCACTGAACATCGTTTATAGAGACTTAAACCAGAGATATTTTGTCTAGA 634
Qy 735 TTCAAGGAGACACATTTCTCTTACTGATTTTCGACTCTGCAAGGAGAACATTTGAACAAA 794
Db 635 TTCAAGGAGACACATTTCTCTTACTGATTTTCGACTCTGCAAGGAGAACATTTGAACAAA 694
Qy 795 CAGCAAAATCCACCTTCCTGTCGCAACCGGAGTATCTCGCACTGAGTGCTTCATAA 854
Db 695 CAGCAAAATCCACCTTCCTGTCGCAACCGGAGTATCTCGCACTGAGTGCTTCATAA 754
Qy 855 GCAGCCTTTAGACAGGACTGTCGACTGCTGGAGCTGTCTGATGAGATGCT 914
Db 755 GCAGCCTTTAGACAGGACTGTCGACTGCTGGAGCTGTCTGATGAGATGCT 814
Qy 915 GTATGGCTCGCCGCTTTTATAGCCGAAACACAGCTGAAATGTACGACCAATTCGAA 974
Db 815 GTATGGCTCGCCGCTTTTATAGCCGAAACACAGCTGAAATGTACGACCAATTCGAA 874
Qy 975 CAAGCCTCTCAGCTGAAACCAATATTA CAATTCGCAAGACACTCTCTGGAGGCGCT 1034
Db 875 CAAGCCTCTCAGCTGAAACCAATATTA CAATTCGCAAGACACTCTCTGGAGGCGCT 934
Qy 1035 CCTGCAGAGGACAGGACCAAGCGGCTCGGGCCAGGATGACTTCTGAGGATTAAGAG 1094
Db 935 CCTGCAGAGGACAGGACCAAGCGGCTCGGGCCAGGATGACTTCTGAGGATTAAGAG 994
Qy 1095 TCATGCTCTTCTCTCTTAATTAACCTGGATGATCTCATTTAAATAAGAAATTAATCTCCCC 1154
Db 1095 TCATGCTCTTCTCTCTTAATTAACCTGGATGATCTCATTTAAATAAGAAATTAATCTCCCC 1154
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; FILE REFERENCE: 21402-573C
; CURRENT APPLICATION NUMBER: US/10/403,161
; CURRENT FILING DATE: 2003-03-31
; PRIOR APPLICATION NUMBER: 60/370349
; PRIOR FILING DATE: 2002-04-05
; PRIOR APPLICATION NUMBER: 60/384543
; PRIOR FILING DATE: 2002-05-30
; PRIOR APPLICATION NUMBER: 60/370969
; PRIOR FILING DATE: 2002-04-08
; PRIOR APPLICATION NUMBER: 60/403748
; PRIOR FILING DATE: 2002-08-15
; PRIOR APPLICATION NUMBER: 60/372019
; PRIOR FILING DATE: 2002-04-12
; PRIOR APPLICATION NUMBER: 60/374379
; PRIOR FILING DATE: 2002-04-22
; PRIOR APPLICATION NUMBER: 09/779679
; PRIOR FILING DATE: 2001-02-08
; PRIOR APPLICATION NUMBER: 60/181045
; PRIOR FILING DATE: 2000-02-08
; PRIOR APPLICATION NUMBER: 10/055877
; PRIOR FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: 60/262892
; PRIOR FILING DATE: 2001-01-19
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 173
; SOFTWARE: CuraSeqidist version 0.1
; SEQ ID NO 3
; LENGTH: 1315
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (14)...(1306)
US-10-403-161-3

Query Match      54.4%; Score 1289.8; DB 13; Length 1315;
Best Local Similarity 99.8%; Pred. No. 0;
Matches 1291; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 43 ATGACGGTGAACATGAGGCTGCTAAGGGCAACCTCACTTACTCCAGGATGAGGGCATG 102
Db 14 ATGACGGTGAACATGAGGCTGCTAAGGGCAACCTCACTTACTCCAGGATGAGGGCATG 73

QY 103 GTGGCAATTCATCGCTTTTCATGAAGCAGAGGAGGATGGCTCGAAGCACTTTATTCCAG 162
Db 74 GTGGCAATTCATCGCTTTTCATGAAGCAGAGGAGGATGGCTCGAAGCACTTTATTCCAG 133

QY 163 AAGATTGCCAATAACTCTTATGCGATGCAAAACACCCCTGAAGTTCCAGTCCATCTTGAAGATC 222
Db 134 AAGATTGCCAATAACTCTTATGCGATGCAAAACACCCCTGAAGTTCCAGTCCATCTTGAAGATC 193

QY 223 TCCCAACTCAGGAGCCTGAGCTTATGAATGCCAACCTTCTCCTCCACCAAGTCCCTTCT 282
Db 194 TCCCAACTCAGGAGCCTGAGCTTATGAATGCCAACCTTCTCCTCCACCAAGTCCCTTCT 253

QY 283 CAGCAATCAACCTTGGCCCGCTCGCTCAATCTCATGCTAAACCATCTGACTTTCACCTTC 342
Db 254 CAGCAATCAACCTTGGCCCGCTCGCTCAATCTCATGCTAAACCATCTGACTTTCACCTTC 313

QY 343 TTGAAAGTATCGAAAGGGCAGTTTGGAAAGGTTCTTTCAGCAAGCAACAAGGCGAA 402
Db 314 TTGAAAGTATCGAAAGGGCAGTTTGGAAAGGTTCTTTCAGCAAGCAACAAGGCGAA 373

QY 403 GAAGTGTCTATGAGTCAAGTCTTACAGAAAGCAACCTTCGAAAGAAAGAGAGGAG 462
Db 374 GAAGTGTCTATGAGTCAAGTCTTACAGAAAGCAACCTTCGAAAGAAAGAGAGGAG 433

QY 463 AAGCATATTATGTCGGAGCGGAATGTTCTGTGTGAAGATGTGAAGCAACCTTTCCTGTGTG 522
Db 434 AAGCATATTATGTCGGAGCGGAATGTTCTGTGTGAAGATGTGAAGCAACCTTTCCTGTGTG 493

QY 523 GGCCTTCACCTCTCTTCCAGACTGCTGACAAATGTACTTTGTCCTAGACTACATTAAT 582
Db 523 GGCCTTCACCTCTCTTCCAGACTGCTGACAAATGTACTTTGTCCTAGACTACATTAAT 582
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Db 494 GGCCTTCACCTCTCTTCCAGACTGCTGACAAATGTACTTTGTCCTAGACTACATTAAT 553
QY 583 GGTGGAGAGTTGTTCTTACCATCTCCAGAGGAAACGCTGCTTCTCTGGAACCAAGGCTCGT 642
Db 554 GGTGGAGAGTTGTTCTTACCATCTCCAGAGGAAACGCTGCTTCTCTGGAACCAAGGCTCGT 613
QY 643 TTCTATGCTGCTGAAATAGCAGTGCCTTGGGCTACCTGCAATTCACCTGAAACATGTTTAT 702
Db 614 TTCTATGCTGCTGAAATAGCAGTGCCTTGGGCTACCTGCAATTCACCTGAAACATGTTTAT 673
QY 703 AGAGACTTTAAACACGAGAAATATTTTGTAGATTACAGGGGACACATTTGCTTCTTACTGAT 762
Db 674 AGAGACTTTAAACACGAGAAATATTTTGTAGATTACAGGGGACACATTTGCTTCTTACTGAC 733
QY 763 TTCGACTCTGCAAGAGGAAACATTTGAACAACAAGACACAAATCCACTTCTGTGGCAAG 822
Db 734 TTCGACTCTGCAAGAGGAAACATTTGAACAACAAGACACAAATCCACTTCTGTGGCAAG 793
QY 823 CCGGAGTATCTCGCACCTGAGGCTGCTTTCATTAAGCAGCCTTATGACAGGACTGTGAGCTGG 882
Db 794 CCGGAGTATCTCGCACCTGAGGCTGCTTTCATTAAGCAGCCTTATGACAGGACTGTGAGCTGG 853
QY 883 TGGTGCCTGGGAGCTGCTTGTATGAGATGCTGTATGGCCTGCGGCTTTTATAGCCGA 942
Db 854 TGGTGCCTGGGAGCTGCTTGTATGAGATGCTGTATGGCCTGCGGCTTTTATAGCCGA 913
QY 943 AACACAGCTGAAATGTAGCAACAATTTCTGAAACAGCCTTCCAGCTGAAACCAAAATAT 1002
Db 914 AACACAGCTGAAATGTAGCAACAATTTCTGAAACAGCCTTCCAGCTGAAACCAAAATAT 973
QY 1003 ACAAATTCGCAAGACACCTCCTCGAGGGCTCTCGAGAGGACAGGACAAAGCGCTC 1062
Db 974 ACAAATTCGCAAGACACCTCCTCGAGGGCTCTCGAGAGGACAGGACAAAGCGCTC 1033
QY 1063 GGGCCCAAGGATGATCTTCATGGAGATTAAGAGTCATGTTCTTCTCTCTTAAATTAAGCTGG 1122
Db 1034 GGGCCCAAGGATGATCTTCATGGAGATTAAGAGTCATGTTCTTCTCTCTTAAATTAAGCTGG 1093
QY 1123 GATGATCTCATTAATAGAGATTAATTCCTCCCTTTTAAACCAATGTGAGTGGGCGCAAC 1182
Db 1094 GATGATCTCATTAATAGAGATTAATTCCTCCCTTTTAAACCAATGTGAGTGGGCGCAAC 1153
QY 1183 GAGCTACGGCACTTTGACCCCGAGTTTACCGAAGAGCTGTCCTCCAACTCCATTTGGGCAAG 1242
Db 1154 GACCTACGGCACTTTGACCCCGAGTTTACCGAAGAGCTGTCCTCCAACTCCATTTGGGCAAG 1213
QY 1243 TCCCTCAGACGCTCCTCGTCACAGCCAGCGTCAAGGAAGCTGCCGAGGCTTTCTTAGGC 1302
Db 1214 TCCCTCAGACGCTCCTCGTCACAGCCAGCGTCAAGGAAGCTGCCGAGGCTTTCTTAGGC 1273
QY 1303 TTTTCTTATGGGCTTCCACGAGACTCTTCTCTC 1335
Db 1274 TTTTCTTATGGGCTTCCACGAGACTCTTCTCTC 1306

RESULT 14
US-10-067-977-1
; Sequence 1, Application US/10067977
; Publication No. US20030157679A1
; GENERAL INFORMATION:
; APPLICANT: YAN, Chunhua and KE, Zhaoxi
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: CL001313
; CURRENT APPLICATION NUMBER: US/10/067,977
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 1338
; TYPE: DNA
; ORGANISM: Homo sapiens
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US-10-067-977-1

Query Match 51.4%; Score 1218.2; DB 15; Length 1338;  
Best Local Similarity 99.8%; Pred. No. 8.4e-309;  
Matches 1220; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 116 TCGCTTTTCATGAAGCAGAGAGGATGGGTCTGAACGACTTTATTCAGAAGATTGCCAATA 175  
Db 116 TGGCTTTTCATGAAGCAGAGAGGATGGGTCTGAACGACTTTATTCAGAAGATTGCCAATA 175

QY 176 ACTTCCTATGCAATCAACACCCCTGAAGTTTCAGTCCATCTTTGAAGATCTCCCAACCTCAGG 235  
Db 176 ACTTCCTATGCAATCAACACCCCTGAAGTTTCAGTCCATCTTTGAAGATCTCCCAACCTCAGG 235

QY 236 AGCTGAGCTTATGAATGCAACCCCTTCTCTCCACCAAGTCTTCTCAGCAAAATCAACC 295  
Db 236 AGCTGAGCTTATGAATGCAACCCCTTCTCTCCACCAAGTCTTCTCAGCAAAATCAACC 295

QY 296 TTGGCCCGTCTGCTCAATCCTCATGCTAAACCATCTGACTTTTCACTTTCTTGAAGTGATCG 355  
Db 296 TTGGCCCGTCTGCTCAATCCTCATGCTAAACCATCTGACTTTTCACTTTCTTGAAGTGATCG 355

QY 356 GAAAGGGCAGTTTGGAAAGGTTCTTCTAGCAAGACACAGGAGAGAGTGTCTTATG 415  
Db 356 GAAAGGGCAGTTTGGAAAGGTTCTTCTAGCAAGACACAGGAGAGAGTGTCTTATG 415

QY 416 CAGTCAAGTTTACAGAAAGCAATCTCTGAAAGAAAGAGAGAGCAATATTATGT 475  
Db 416 CAGTCAAGTTTACAGAAAGCAATCTCTGAAAGAAAGAGAGAGCAATATTATGT 475

QY 476 CGAGCGGAATGTCTGTCTGAAGATGTGAAGCACCTTCTCTGTTGGGCTTTCACCTCT 535  
Db 476 CGAGCGGAATGTCTGTCTGAAGATGTGAAGCACCTTCTCTGTTGGGCTTTCACCTCT 535

QY 536 CTTTCCAGACTGTCTGACAAATTTGACTTTCTCTAGACTACATTAATGTTGGAGAGTTGT 595  
Db 536 CTTTCCAGACTGTCTGACAAATTTGACTTTCTCTAGACTACATTAATGTTGGAGAGTTGT 595

QY 596 TCTACCATCTCCAGAGGAAGCTGCTTCTCTGAAACACAGGCTCGTTTCTATGCTGCTG 655  
Db 596 TCTACCATCTCCAGAGGAAGCTGCTTCTCTGAAACACAGGCTCGTTTCTATGCTGCTG 655

QY 656 AATATAGCAGTGTCTTGGGCTTACTGTCATTCACATCACTGAACTGTTTATAGAGCTTAAAC 715  
Db 656 AATATAGCAGTGTCTTGGGCTTACTGTCATTCACATCACTGAACTGTTTATAGAGCTTAAAC 715

QY 716 CAGAGAAATATTTGCTAGATTTCACAGGACACATTTGCTTACTGATTTTCGACTCTGCA 775  
Db 716 CAGAGAAATATTTGCTAGATTTCACAGGACACATTTGCTTACTGATTTTCGACTCTGCA 775

QY 776 AGAGAAACATTTGAACACAGACACACATCCACCTTCTGTGGACCGCGGAGTATCTCG 835  
Db 776 AGAGAAACATTTGAACACAGACACACATCCACCTTCTGTGGACCGCGGAGTATCTCG 835

QY 836 CACCTGAGTGTCTTATGAAGCAGCTTATGACAGGACTGTGAGTGTGTGCTGGGAG 895  
Db 836 CACCTGAGTGTCTTATGAAGCAGCTTATGACAGGACTGTGAGTGTGTGCTGGGAG 895

QY 896 CTGTCTTGATGAGATGCTGTATGGCTGCGGCTTTTATAGCCGAAACACAGCTGAAA 955  
Db 896 CTGTCTTGATGAGATGCTGTATGGCTGCGGCTTTTATAGCCGAAACACAGCTGAAA 955

QY 956 TGTACGACAACTTCTGAACAGGCTCTCAGCTGAAACCAATATTACAAATTCGCA 1015  
Db 956 TGTACGACAACTTCTGAACAGGCTCTCAGCTGAAACCAATATTACAAATTCGCA 1015

QY 1016 GACACCTCTCGGGGCTCTCTGAGAGGACAGACAAAGCGCTCGGGGCCAAGGATG 1075  
Db 1016 GACACCTCTCGGGGCTCTCTGAGAGGACAGACAAAGCGCTCGGGGCCAAGGATG 1075

QY 1076 ACTTCATGGAGATTAAAGATCATGCTCTTCTTCTTAAATTAATGCGGATGATCTCATTA 1135  
Db 1076 ACTTCATGGAGATTAAAGATCATGCTCTTCTTCTTAAATTAATGCGGATGATCTCATTA 1135

## RESULT 15

US-10-067-977-3

; Sequence 3, Application US/10067977

; Publication No. US20030157679A1

; GENERAL INFORMATION:

; APPLICANT: YAN, Chunhua and KE, Zhaoxi

; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC

; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES

; TITLE OF INVENTION: THEREOF

; FILE REFERENCE: CL001313

; CURRENT APPLICATION NUMBER: US/10/067,977

; CURRENT FILING DATE: 2002-02-08

; NUMBER OF SEQ ID NOS: 4

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 3

; LENGTH: 10573

; TYPE: DNA

; ORGANISM: Homo sapiens

US-10-067-977-3

Query Match 48.8%; Score 1152.6; DB 15; Length 10573;

Best Local Similarity 99.1%; Pred. No. 5.9e-291;

Matches 1180; Conservative 0; Mismatches 9; Indels 2; Gaps 2;

QY	1648	CTGCAGATCTGCTCGGCTGTGATGACGAATATTATGAAATGTCGCTTTTCTGAAGAGAT	1707
Db	7884	CTGCAGATCTGCTCGGCTGTGATGACGAATATTATGAAATGTCGCTTTTCTGAAGAGAT	7943
QY	1708	TGTGTTAGCTCAAAAGCTTTTCTATCCAGTGTTCAGTTCCTTTATTTTCCCTTGTGGA	1767
Db	7944	TGTGTTAGCTCAAAAGCTTTTCTATCCAGTGTTCAGTTCCTTTATTTTCCCTTGTGGA	8003
QY	1768	TATGCTGTGTGAACCGTGTGTGAGTGTGGTATGCTGATCACAGATGGATTTGTTTATA	1827
Db	8004	TATGCTGTGTGAACCGTGTGTGAGTGTGGTATGCTGATCACAGATGGATTTGTTTATA	8063
QY	1828	AGCATCAATGTGACACTTGCAGGACACTACAAACGTGGGACATTTGTTCTTCCATAT	1887
Db	8064	AGCATCAATGTGACACTTGCAGGACACTACAAACGTGGGACATTTGTTCTTCCATAT	8123
QY	1888	TTGGAAGATAAATTATGTGTAGACTTTTTTTGTAGATACCGTTAATAACTAAAAATTTAT	1947
Db	8124	TTGGAAGATAAATTATGTGTAGACTTTTTTTGTAGATACCGTTAATAACTAAAAATTTAT	8183
QY	1948	TGAAATGCTCTTGCATCACTCGTATTCAGATGCCCTAAGAAAGCATTTGCTGTACAAAT	2007
Db	8184	TGAAATGCTCTTGCATCACTCGTATTCAGATGCCCTAAGAAAGCATTTGCTGTACAAAT	8243
QY	2008	ATTTCTATTTTGAAGAGGTTTTTTATGGACCAATGCCCGAGTTGTCAGTCAGAGCCGTT	2067
Db	8244	ATTTCTATTTTGAAGAGGTTTTTTATGGACCAATGCCCGAGTTGTCAGTCAGAGCCGTT	8303
QY	2068	GGTGTTCCTATTTGTTTAAAAATGTCACCTGTAAAAATGGGCATTTATTTATGTTTTTTT	2127
Db	8304	GGTGTTCCTATTTGTTTAAAAATGTCACCTGTAAAAATGGGCATTTATTTATGTTTTTTT	8363
QY	2128	TGCATTCCTGATAATTGTATGTATTTGATAAAGAACGTCTGTACATTCGGTTTAAACACT	2187
Db	8364	TGCATTCCTGATAATTGTATGTATTTGATAAAGAACGTCTGTACATTCGGTTTAAACACT	8423
QY	2188	AGTATATTTAACTTACAGGCTTATTTGTATGTAAACCAACCATTTTAACTGTCTAAT	2247
Db	8424	AGTATATTTAACTTACAGGCTTATTTGTATGTAAACCAACCATTTTAACTGTCTAAT	8483
QY	2248	TAAATGTTTATATAGTACAATCCCTTCCCTCATCCCATCACACAACCTTTTTTGTGTG	2307
Db	8484	TAAATGTTTATATAGTACAATCCCTTCCCTCATCCCATCACACAACCTTTTTTGTGTG	8543
QY	2308	TGATAAACTGATTTTGGTTTGCATTAACCTTGAATAATAAAAAAAA	2358
Db	8544	TGATAAACTGATTTTGGTTTGCATTAACCTTGAATAATAATAAAAAAAA	8594

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Job time : 1127 secs



GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: September 18, 2004, 18:46:05 : Search time 176 Seconds  
(without alignments)  
7472.918 Million cell updates/sec

Title: US-10-000-039A-1  
Perfect score: 2370  
Sequence: 1 CACGAGGAGCGCTACGTC.....AAAAAAAAAAAAAAAAAAAA 2370

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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5: /cgn2\_6/ptodata/2/ina/PTUS\_COMB.seq.\*  
6: /cgn2\_6/ptodata/2/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match %	Length	ID	Description
1	2370	100.0	2370	4	US-09-031-295-1
2	2262.8	95.5	2311	2	US-08-712-709-6
3	2262.8	95.5	2311	3	US-09-111-444-6
4	2262.8	95.5	2311	3	US-09-541-228-6
5	2262.8	95.5	2311	4	US-09-015-434-772
6	252	10.6	2181	4	US-09-417-197-70
7	252	10.6	2184	2	US-09-212-771-1
8	252	10.6	2610	2	US-09-167-322-3
9	252	10.6	2610	3	US-09-091-058-1
10	252	10.6	2610	4	US-09-023-655-1206
11	250.6	10.6	3321	4	US-09-023-655-1361
12	245.2	10.3	1599	3	US-09-256-465-1
13	245.2	10.3	1599	3	US-09-167-322-3
14	245.2	10.3	1599	4	US-09-023-655-1004
15	239.4	10.1	2245	4	US-09-225-749-24
16	232.6	9.8	2274	4	US-09-772-647-3
17	232.2	9.8	2599	6	5266464-1
18	229	9.7	2244	3	US-09-094-714A-48
19	227.6	9.6	2104	3	US-09-313-930-1
20	227.6	9.6	2104	4	US-09-023-655-1191
21	217	9.2	2751	4	US-09-417-197-72
22	214.6	9.1	2754	3	US-09-429-322-3
23	197	8.3	1732	4	US-09-430-564-1
24	195.2	8.2	2556	4	US-09-817-310-1
25	185.6	7.8	266	1	US-09-985-799-164
26	185.6	7.8	266	1	US-08-594-031-164
27	184.4	7.8	3255	4	US-09-016-434-1471

28 183 7.7 183 3 US-09-040-984-56  
29 183 7.7 183 4 US-09-123-912-56  
30 183 7.7 183 4 US-09-643-597-56  
31 183 7.7 183 4 US-09-480-884A-56  
32 183 7.7 183 4 US-09-542-615A-56  
33 183 7.7 183 4 US-09-606-421B-56  
34 183 7.7 183 4 US-09-221-107-56  
35 181.8 7.7 1008 4 US-09-394-455-3  
36 181.8 7.7 2549 3 US-09-467-082-3  
37 181.8 7.7 2549 4 US-09-394-455-5  
38 181.8 7.7 2608 4 US-09-394-455-35  
39 180.2 7.6 1788 4 US-09-417-197-68  
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43 179.2 7.6 2201 4 US-09-566-921-52  
44 177.6 7.5 1637 2 US-08-966-316-10  
45 177.2 7.5 4438 4 US-09-566-921-81

## ALIGNMENTS

RESULT 1  
US-09-031-295-1  
; Sequence 1, Application US/09031295  
; Patent No. 6326181  
; GENERAL INFORMATION:  
; APPLICANT: LANG, Florian  
; TITLE OF INVENTION: CELL VOLUME-REGULATED HUMAN KINASE H-SCK  
; NUMBER OF SEQUENCES: 4  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: FOLEY & LARDNER  
; STREET: 3000 K Street, N.W.  
; CITY: Washington  
; STATE: D.C.  
; COUNTRY: U.S.A.  
; ZIP: 20007-5109  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/031,295  
; FILING DATE: 26-FEB-1998  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: DE 197-08-173.8  
; FILING DATE: 28-FEB-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Sandcock, Colin G.  
; REGISTRATION NUMBER: 31,298  
; REFERENCE/POCKET NUMBER: 058315/0123  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (202) 672-5300  
; TELEFAX: (202) 672-5399  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 2370 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: CDNA  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 43..1335  
; US-09-031-295-1

Query Match 100.0%; Score 2370; DB 4; Length 2370;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 2370; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	CACGAGGAGCGCTAACGCTCTTCTCTCTCCCGCGGTGGTGATGACGGTGAAACTGAG	60	QY	1081	ATGGAGATTAAAGATCATGTCTTCTCTCTTAAATTAACTGGGATGATCTCATTAATAAG	1140
Db	1	CACGAGGAGCGCTAACGCTCTTCTCTCTCCCGCGGTGGTGATGACGGTGAAACTGAG	60	Db	1081	ATGGAGATTAAAGATCATGTCTTCTCTCTTAAATTAACTGGGATGATCTCATTAATAAG	1140
QY	61	GCTGCTAAGGGCAACCTCTACTTACTCCAGATGAGGGGATGGTGGCAATTCTCAFCGCT	120	QY	1141	AAGATTACTCCCGCTTTTAAACCAATGTAGTGGGCCCAACGAGCTACGGCACTTTTGAC	1200
Db	61	GCTGCTAAGGGCAACCTCTACTTACTCCAGATGAGGGGATGGTGGCAATTCTCAFCGCT	120	Db	1141	AAGATTACTCCCGCTTTTAAACCAATGTAGTGGGCCCAACGAGCTACGGCACTTTTGAC	1200
QY	121	TTCAATGACAGAGAGGATGGGTCTGAAGCATTTTATTCAGAAGATTGCCAATAACTCC	180	QY	1201	CCGGATTTTACCGAAGAGCTGTCCCAACTCCATTGGCAAGTCCCTGACAGCGCTCTC	1260
Db	121	TTCAATGACAGAGAGGATGGGTCTGAAGCATTTTATTCAGAAGATTGCCAATAACTCC	180	Db	1201	CCGGATTTTACCGAAGAGCTGTCCCAACTCCATTGGCAAGTCCCTGACAGCGCTCTC	1260
QY	181	TATGCAATGAAACACCGCTCAAGTTTCACTCTTGAAGATCTCCCAACCTCAGGAGCT	240	QY	1261	GTCAACGCGCAGCGCTCAAGGAAGCTGCCGAGGCTTCTTAGGCTTTTCTATGCGCTCCC	1320
Db	181	TATGCAATGAAACACCGCTCAAGTTTCACTCTTGAAGATCTCCCAACCTCAGGAGCT	240	Db	1261	GTCAACGCGCAGCGCTCAAGGAAGCTGCCGAGGCTTCTTAGGCTTTTCTATGCGCTCCC	1320
QY	241	GAGCTTATGAATGCCAACCCCTTCTCTCCACCAAGTCTTCTCAGCAAAATCAACCTTGGC	300	QY	1321	ACGGACTCTTCTCTCTGAAACCTGTGTAGGGCTTGGTTTAAAGGATTTTATGTGTGTTTC	1380
Db	241	GAGCTTATGAATGCCAACCCCTTCTCTCCACCAAGTCTTCTCAGCAAAATCAACCTTGGC	300	Db	1321	ACGGACTCTTCTCTCTGAAACCTGTGTAGGGCTTGGTTTAAAGGATTTTATGTGTGTTTC	1380
QY	301	CGTCTGCTCAATCTCATGCTAAACCATCTGACTTTCACTTTCTTGAAGTGTATCGGAAG	360	QY	1381	CGAATGTTTTAGTTAGCTCTTGGTGAGCCGCCAGCTGACAGGACATCTTACAAGAGAA	1440
Db	301	CGTCTGCTCAATCTCATGCTAAACCATCTGACTTTCACTTTCTTGAAGTGTATCGGAAG	360	Db	1381	CGAATGTTTTAGTTAGCTCTTGGTGAGCCGCCAGCTGACAGGACATCTTACAAGAGAA	1440
QY	361	GGCAGTTTTGAAAAGGTTCTTCTAGCAAGACACAAAGGCGAAGAGTGTCTATGCAGTC	420	QY	1441	TTTGCACATCTCTGGAAGCTTAGCAATCTTATTGACACACTGTTCGCTGGAATTTTTTGAA	1500
Db	361	GGCAGTTTTGAAAAGGTTCTTCTAGCAAGACACAAAGGCGAAGAGTGTCTATGCAGTC	420	Db	1441	TTTGCACATCTCTGGAAGCTTAGCAATCTTATTGACACACTGTTCGCTGGAATTTTTTGAA	1500
QY	421	AAAGTTTTACAGAAGAAACCAATCTCTGAAAAAGAAAGAGAGACATATTATGTCGGAG	480	QY	1501	GAGCAATTTCTCTCAGTGAGCTCATGAGTTTTTCAATTTTATTTCTTCTTCCAAAGTGG	1560
Db	421	AAAGTTTTACAGAAGAAACCAATCTCTGAAAAAGAAAGAGAGACATATTATGTCGGAG	480	Db	1501	GAGCAATTTCTCTCAGTGAGCTCATGAGTTTTTCAATTTTATTTCTTCTTCCAAAGTGG	1560
QY	481	CGGAATGTTCTGTGTGAAGATGTGAAGCACCCTTCTCTGGTGGCCCTTCACTTCTTTTC	540	QY	1561	TCGTATCTCTGAAAACGAGCGTTAGAGTGCCTCTAGACGGAGCGAGGAGTTTCGTGTA	1620
Db	481	CGGAATGTTCTGTGTGAAGATGTGAAGCACCCTTCTCTGGTGGCCCTTCACTTCTTTTC	540	Db	1561	TCGTATCTCTGAAAACGAGCGTTAGAGTGCCTCTAGACGGAGCGAGGAGTTTCGTGTA	1620
QY	541	CAGACTGCTGACAAATTTGACTTTGTCTAGACTACATTAATGGTGGAGAGTGTCTTAC	600	QY	1621	AAAGCGGACCTGTTCTAAAAAAGGTCTCTGACAGATCTGTCTGGGCTGTGATGACGAATAT	1680
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QY	601	CACTCCAGAGGGAAACGCTCTCTGGAACCAACCGGCTCGTTTCTATGCTGTAATA	660	QY	1681	TAATGAAAATGTCCTTTTCTGAAAGAGATTTGTGTAGTCTCAAAGCTTTTCTATCGCAGTG	1740
Db	601	CACTCCAGAGGGAAACGCTCTCTGGAACCAACCGGCTCGTTTCTATGCTGTAATA	660	Db	1681	TAATGAAAATGTCCTTTTCTGAAAGAGATTTGTGTAGTCTCAAAGCTTTTCTATCGCAGTG	1740
QY	661	GCAGTGCCTTGGGCTACCTGCAATCTGAAACATCGTTTATAGACATTTAAACCAGAG	720	QY	1741	TTTTCAGTTCTTTATTTTCCCTTGTGATGCTGTGTGAAACCGTGTGAGTGTGATAT	1800
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QY	721	AATATTTTCTAGATTCACAGGACACATTTGCTTACTTATTCGGACTCTGCAAGGAG	780	QY	1801	GCCTGATCACAGATGGAATTTTGTATAGCATCAATGTGACACTTGCAGGACACTACAAC	1860
Db	721	AATATTTTCTAGATTCACAGGACACATTTGCTTACTTATTCGGACTCTGCAAGGAG	780	Db	1801	GCCTGATCACAGATGGAATTTTGTATAGCATCAATGTGACACTTGCAGGACACTACAAC	1860
QY	781	ACATTGAAACAAACAGCTCAACATCCACTTCTGTGGACGCGGAGTATCTCGACCT	840	QY	1861	GTGGGACATTTGTTTCTTCCATATTTTGGGAAGATAAATTTATGTGTGATGACATTTTGTGT	1920
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QY	841	GAGGTCTTCATAAGCAGCTTATGACAGGACTGTGGAATGTTGTTGCTGGAGCTGTC	900	QY	1921	AAGATTACGTTTAACTAAATAATTTATGAAATGTTTGAATGCTCGTATTCAGATG	1980
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QY	901	TTGTATGAGATGCTGTATGGCTTGGCCCTTTTATAGCCGAAACACAGCTGAAATGTATC	960	QY	1981	CCTAAAGAAAGCAATTTCTTCTATTTTATAGAAAGGGTTTTTATGGACCA	2040
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RESULT 2
US-08-712-709-6
; Sequence 6, Application US/08712709
; Patent No. 5863780
; GENERAL INFORMATION:
; APPLICANT: Au-Young, Janice
; APPLICANT: Guegler, Karl J.
; APPLICANT: Hawkins, Phillip R.
; TITLE OF INVENTION: NOVEL HUMAN PROTEIN KINASES
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: U.S.
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/712,709
; FILING DATE: Filed Herewith
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0118 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2311 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; IMMEDIATE SOURCE:
; LIBRARY:
; CLONE: Consensus
US-08-712-709-6

Query Match 95.5%; Score 2262.8; DB 2; Length 2311;
Best Local Similarity 99.5%; Pred. No. 0;
Matches 2300; Conservative 0; Mismatches 8; Indels 3; Gaps 3;

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Db 241 AGTCCTTCTCAGCAAAATCAACCTTGGCCCGCTCGTCCAAATCTCATGTCTAAACCATCTGAC 300
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Db 301 TTTCACTTCTTGAAGTGATCGGAAAGGCGAGTTTGGAAAGGTTCTTCTAGCAAGACAC 360
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## RESULT 3

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; Sequence 6, Application US/09111444
; Patent No. 6045792
; GENERAL INFORMATION:
; APPLICANT: Au-Young, Janice
; APPLICANT: Guegler, Karl J.
; APPLICANT: Hawkins, Phillip R.
; TITLE OF INVENTION: NOVEL HUMAN PROTEIN KINASES
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: U.S.
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/111,444
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/712,709
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0118 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-855-0555
; TELEFAX: 415-845-4166
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2311 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; IMMEDIATE SOURCE:
; LIBRARY:
; CLONE: Consensus
US-09-111-444-6
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Query Match 95.5%; Score 2262.8; DB 3; Length 2311;
Best Local Similarity 99.5%; Pred. No. 0;
Matches 2300; Conservative 0; Mismatches 8; Indels 3; Gaps 3;

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Db |||||  
1861 GAAGATAAATTTATGTAGTACTTTTGTGAAGATACGGTTAATACTAAATTTTATTGA 1920  
Qy |||||  
1951 AATGGTCTTCAATGACTCGTATTCAGATGCTTAAAGAAAGCAATGCTGTACAAATATT 2010  
Db |||||  
1921 AATGGTCTTCAATGACTCGTATTCAGATGCTTAAAGAAAGCAATGCTGTACAAATATT 1980  
Qy |||||  
2011 TCTATTTTGAAGAGGTTTTTATGACCAATGCCCCAGTTGTCAGTGAGCGGTTGTT 2070  
Db |||||  
1981 TCTATTTTGAAGAGGTTTTTATGACCAATGCCCCAGTTGTCAGTGAGCGGTTGTT 2040  
Qy |||||  
2071 GTTTTTCATTTTAAATGTCACCTGTAATAATGGGCATTTATTTATGTTTTTTTTTTCG 2130  
Db |||||  
2041 GTTTTTCATTTTAAATGTCACCTGTAATAATGGGCATTTATTTATGTTTTTTTTTTCG 2100  
Qy |||||  
2131 ATTCTCTGATTAATTTGATGATTTATATAAGAACGTCGTATCATTTGGGTTTAAACACTAGT 2190  
Db |||||  
2101 ATTCTCTGATTAATTTGATGATTTATATAAGAACGTCGTATCATTTGGGTTTAAACACTAGT 2160  
Qy |||||  
2191 ATATTAAACTTACAGGCTTATTTGTAATGTAAACCAACCATTTTAAATGTACTGTAATTA 2250  
Db |||||  
2161 ATATTAAACTTACAGGCTTATTTGTAATGTAAACCAACCATTTTAAATGTACTGTAATTA 2220  
Qy |||||  
2251 CATGTTTATTAATAGTACAAATCTTCCCTCATCCATCAACACAACTTTTTTGTGTGTA 2310  
Db |||||  
2221 CATGTTTATTAATAGTACAAATCTTCCCTCATCCATCAACACAACTTTTTTGTGTGTA 2280  
Qy |||||  
2311 TAAACTGATTTTGGTTTGGCAATAAAACCTTG 2341  
Db |||||  
2281 TAAACTGATTTTGGTTTGGCAATAAAACCTTG 2311

## RESULT 4

US-09-541-228-6

; Sequence 6, Application US/09541228

; Patent No. 6232077

; GENERAL INFORMATION:

; APPLICANT: Au-Young, Janice

; APPLICANT: Guegler, Karl J.

; APPLICANT: Hawkins, Phillip R.

; TITLE OF INVENTION: NOVEL HUMAN PROTEIN KINASES



QY	1593	CTTAGCGGAGGAGGAGTTTCGTTAGAAAGCGGAC-CTGTTCTAAAAAGGTCTCCTGC	1651
Db	1561	CTTAGCGGAGGAGGAGTTTCGTTAGAAAGCGGACGCTGTTCTAAAAAGGTCTCCTGC	1620
QY	1652	AGATCTGCTGGGCTGATGACGAATATATGAAATGCGCTTTTCTGAAG-AGATTGT	1710
Db	1621	AGATCTGCTGGGCTGATGACGAATATATGAAATGCGCTTTTCTGAAGAAATTGT	1680
QY	1711	GTTAGCTCCAAAGCTTTTCTATCGCAGTGTTTCAGTCTTTTATTTTCCCTTGATAT	1770
Db	1681	GTTAGCTCCAAAGCTTTTCTATCGCAGTGTTTCAGTCTTTTATTTTCCCTTGATAT	1740
QY	1771	GCTGTGGAACCTGCTGAGTGCTGATGCGCTGATCAGATGATTTTGTATAAGC	1830
Db	1741	GCTGTGGAACCTGCTGAGTGCTGATGCGCTGATCAGATGATTTTGTATAAGC	1800
QY	1831	ATCAATGTGACACTTGCAGACACTACAAGTGGGACATTTGTTTCTTCATATTTG	1890
Db	1801	ATCAATGTGACACTTGCAGACACTACAAGTGGGACATTTGTTTCTTCATATTTG	1860
QY	1891	GAAGATAAATTATGTAGACTTTTGTAAAGATACGGTTAATACTAAAAATTATGA	1950
Db	1861	GAAGATAAATTATGTAGACTTTTGTAAAGATACGGTTAATACTAAAAATTATGA	1920
QY	1951	AATGGTCTTCAATGACTGCTATTCAGATCGCTAAAGAAAGCATTTGCTGCTACAAATTT	2010
Db	1921	AATGGTCTTCAATGACTGCTATTCAGATCGCTAAAGAAAGCATTTGCTGCTACAAATTT	1980
QY	2011	TCATATTTTAAAGGGTTTTTATGACCAATGCCAGTTGTCAGTCAGAGCGGTTGGT	2070
Db	1981	TCATATTTTAAAGGGTTTTTATGACCAATGCCAGTTGTCAGTCAGAGCGGTTGGT	2040
QY	2071	GTTTTTCATGTTTAAATATGTCAGCTGATAAATGGGCAATTTATTTATGTTTTTTTTC	2130
Db	2041	GTTTTTCATGTTTAAATATGTCAGCTGATAAATGGGCAATTTATTTATGTTTTTTTTC	2100
QY	2131	ATTCTGATTAATTGATGATTTGTAAGAAACGCTGTACATGGGTTATAACACTAGT	2190
Db	2101	ATTCTGATTAATTGATGATTTGTAAGAAACGCTGTACATGGGTTATAACACTAGT	2160
QY	2191	ATATTTAACTTACAGCTTATTTGTAATGTAAACCCACCATTTTAAATGACTGTAATTA	2250
Db	2161	ATATTTAACTTACAGCTTATTTGTAATGTAAACCCACCATTTTAAATGACTGTAATTA	2220
QY	2251	CATGTTTATATACGTACAATTCCTTCCCTCATCCCATCACAACTTTTTTGTGTGTA	2310
Db	2221	CATGTTTATATACGNAATTCCTTCCCTCATCCCATCACAACTTTTTTGTGTGTA	2280
QY	2311	TAACTGATTTTGGTTGCAATAAAACCTTG	2341
Db	2281	TAACTGATTTTGGTTGCAATAAAACCTTG	2311
RESULT 5			
US-09-016-434-772			
; Sequence 772, Application US/09016434			
; Patent No. 6500938			
; GENERAL INFORMATION:			
; APPLICANT: Janice Au-Young			
; APPLICANT: Jeffrey J. Seilhamer			
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING			
; TITLE OF INVENTION: PATHWAY GENE EXPRESSION			
; NUMBER OF SEQUENCES: 1490			
; CORRESPONDENCE ADDRESS:			
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.			
; STREET: 3174 PORTER DRIVE			
; CITY: PALO ALTO			
; STATE: CALIFORNIA			
; COUNTRY: USA			
; ZIP: 94304			
; COMPUTER READABLE FORM:			
; MEDIUM TYPE: Floppy disk			
; COMPUTER: IBM PC compatible			
; OPERATING SYSTEM: PC-DOS/MS-DOS			
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2			
; CURRENT APPLICATION DATA:			
; APPLICATION NUMBER: US/09/016,434			
; FILING DATE: HEREWITH			
; CLASSIFICATION:			
; PRIOR APPLICATION DATA:			
; APPLICATION NUMBER:			
; FILING DATE:			
; CLASSIFICATION:			
; ATTORNEY/AGENT INFORMATION:			
; NAME: Zeller, Karen J.			
; REGISTRATION NUMBER: 37,071			
; REFERENCE/DOCKET NUMBER: PA-0002 US			
; TELECOMMUNICATION INFORMATION:			
; TELEPHONE: (650) 855-0555			
; TELEFAX: (650) 845-4166			
; INFORMATION FOR SEQ ID NO: 772:			
; SEQUENCE CHARACTERISTICS:			
; LENGTH: 2311 base pairs			
; TYPE: nucleic acid			
; STRANDEDNESS: single			
; TOPOLOGY: linear			
; IMMEDIATE SOURCE:			
; LIBRARY: MMLR2DT01			
; CLONE: 477245			
; US-09-016-434-772			
Query Match 95.5%; Score 2262.8; DB 4; Length 2311;			
Best Local Similarity 99.5%; Pred. No. 0;			
Matches 2300; Conservative 0; Mismatches 8; Indels 3; Gaps 3;			
QY	34	GCCTGTGTGATGCGGTGAAACTGAGGCTGTCTAAGGCGACCCCTCACTTACTCCAGGATG	93
Db	1	GCCTGTGTGATGCGGTGAAACTGAGGCTGTCTAAGGCGACCCCTCACTTACTCCAGGATG	60
QY	94	AGGGCGATGTGGCAATTTCTCATGCTTTTCATGAGCAGAGGAGGATGGGTCTGAAACGAC	153
Db	61	AGGGCGATGTGGCAATTTCTCATGCTTTTCATGAGCAGAGGAGGATGGGTCTGAAACGAC	120
QY	154	TTTATTGAGAAGATGCGCAATACTCTCATGATGCAAAACACCTGAGTTTCACTTCCATC	213
Db	121	TTTATTGAGAAGATGCGCAATACTCTCATGATGCAAAACACCTGAGTTTCACTTCCATC	180
QY	214	TTGAGATCTCCCAACCTCAGGCGCTGAGCTTATGATGCAACCTTCTCTCCACCA	273
Db	181	TTGAGATCTCCCAACCTCAGGCGCTGAGCTTATGATGCAACCTTCTCTCCACCA	240
QY	274	AGTCTCTTCTCAGCAAAATCAACCTTTGGCCCGTCTGTCCTCATGCTTAAACCACTGAC	333
Db	241	AGTCTCTTCTCAGCAAAATCAACCTTTGGCCCGTCTGTCCTCATGCTTAAACCACTGAC	300
QY	334	TTTCACTTTTGAAGATGCGGAAAGGCGAGTTTGGAAAGGTTCTTCTAGCAAGACAC	393
Db	301	TTTCACTTTTGAAGATGCGGAAAGGCGAGTTTGGAAAGGTTCTTCTAGCAAGACAC	360
QY	394	AAGCAGAGAAGGTTTCTATGCAAGTCAAAGTTTTTACAGAAGAAAGCAATCTGAAAAAG	453
Db	361	AAGCAGAGAAGGTTTCTATGCAAGTCAAAGTTTTTACAGAAGAAAGCAATCTGAAAAAG	420
QY	454	AAAGAGAGAAGACATATTATGTCGAGCGGAATGTTCTGTTGAAGAAATGTGAAGACCCCT	513
Db	421	AAAGAGAGAAGACATATTATGTCGAGCGGAATGTTCTGTTGAAGAAATGTGAAGACCCCT	480
QY	514	TTCTGTGGGCTTCACTTCTTTCCAGTCTGCAAAATGTTACTTTTCTCTAGAC	573
Db	481	TTCTGTGGGCTTCACTTCTTTCCAGTCTGCAAAATGTTACTTTTCTCTAGAC	540
QY	574	TACATTAAATGTTGAGAGTTTCTTACCATCTCCAGAGGGAACGCTGCTTCTCTGGAACA	633
Db	541	TACATTAAATGTTGAGAGTTTCTTACCATCTCCAGAGGGAACGCTGCTTCTCTGGAACA	600
QY	634	CGGGCTCGTTTCTATGCTGCTGAAATAGCCAGTGCCTTGGGCTACCTGCAATTCATGAAC	693





Db 445 GAGTTTGAGTACCTGAAGCTGTGGCAGAGGACCTTTTCGGCAAGGTGATCCTGGTGAAG 504  
Qy 391 CACAAGCAGAAAGTGTCTATGCAAGTCAAGTCTTTCAGAAAGCAATCTCTGAAA 450  
Db 505 GAGAAGGCCACAGCCGCTACTAGCCATGAAGATCCTCAAGAAAGGAAGTCACTGCTGGCC 564  
Qy 451 AAGAAGAGAGAGAGCAATATTATGTGCGAGCGGAATGTTCTGTTGAAGAATGTGAAGCAC 510  
Db 565 AAGACAGAGTGGCCCAACACTCACCGA---GAAACCGGCTCTGCAAGATCTCCAGGCAC 621  
Qy 511 CCTTTCTGCTGGGCTCTCACTCTCTCTTCCAGACTGCTGACAAATGTACTTTGTCTTA 570  
Db 622 CCTTCTCTCAGCCCTGAAGTACTCTTTCCAGACCCACAGCCGCTCTGCTTGTGTCATG 681  
Qy 571 GACTACATTAATGTGAGAGTGTCTTCTATGCAAGTCAATCTCCAGAGGGAACGCTGCTCTGAA 630  
Db 682 GAGTACGCCAACCGGGGCGAGCTGTTCTCCACCTGCTCCCGGGAACGTTGTTCTCCGAG 741  
Qy 631 CCAGGGCTGTTTCTATGCTGCTGAATAGCCAGTGCCTTGGGCTACCTGCAATTC---A 687  
Db 742 GACCGGGCCGCTTCTATGGGCTGAGATTGTGTCAGCCCTGGAATCTACCTGCACTCGAG 801  
Qy 688 CTGAACATCGTTTATAGAGACTTAAACACAGAGAAATATTTTGTAGATTCACAGGACAC 747  
Db 802 AAGAACGTGTGTACCGGGACCTCAAGCTGGAGAACCTCATGCTGGACAGGACGGGCAC 861  
Qy 748 ATTGCTCTTACTGATTTGGGACTCTGCAAGAGAAACATTGAAACAACAAGACAAACATCC 807  
Db 862 ATTAAGATCAAGACTTTCGGGCTGTGAAGAGAGGGGATCAAGGACGGTGCACCATGAAG 921  
Qy 808 ACCTTCTGTGCGACCGCGGAGTATCTCGACCTCAGGTGCTTCATTAAGAGCCCTTATGAC 867  
Db 922 ACCTTTTGGGCAACACTGAGTACTGCTGCCCCCGAGGTGCTGGAGGAATGACTACGCG 981  
Qy 868 AGGACTGTGAGCTGTGTGCTGGGAGCTGCTTTGATGAGATGCTGTATGGGCTGCGG 927  
Db 982 CGTCACTGGACTGTGTGGGGCTGGGCTGTGTATGACGAGATGATGTGGGTGCGCTG 1041  
Qy 928 CTTTATAGCCGAAACACAGCTGAAATGTACAGCAACATCTGAAACAGCCCTCTCAG 987  
Db 1042 CCTTCTACACACAGGACCATGAGAAGCTTTTGTAGCTCATCTCATGGAGGAGATCCGC 1101  
Qy 988 CTGAAACCAATATTACAAATTCGCAAGACACCTCTGAGGGGCTCTCTGCAAGGAC 1047  
Db 1102 TTCCCGGCGACGCTGTGGTCCGAGGCCAAGTCTTGTCTTTCAGGGCTGCTCAAGAGAC 1161  
Qy 1048 AGGACAAAGCGGCT---CGGGGCCAAGGATGACTTCATGAGATTAAGAGTCACTGCTTC 1104  
Db 1162 CCCAAGCAGAGGCTTGGCGGGGCTCCGAGGACGCCAAGGAGATCATGCAAGATCGCTTC 1221  
Qy 1105 TTCTCTTAATACTGGGATGATCTCAATTAAGAGATTAATCTCCCTTTTAAACCCA 1164  
Db 1222 TTTCCGGGTATCGTGTGGCAGCAGCTGTACGAGAAGAGCTCAGCCCCACCTTCAAGGCC 1281  
Qy 1165 AATGTGAGTGGGCCCAAGCAGCTACGCGACTTTCGCCCCGAGTTTACCGAGAGCCGTTC 1224  
Db 1282 CAGGTACGTCGGAGACTGACACCAAGGTATTTTGTATGAGGAGTTTCACGGCCAGATGATC 1341  
Qy 1225 CCCAACTC 1232  
Db 1342 ACCATCAC 1349

## RESULT 7

US-09-417-197-138  
; Sequence 138, Application US/09417197  
; Patent No. 6518021  
; GENERAL INFORMATION:  
; APPLICANT: Ole THASTRUP, et al.  
; TITLE OF INVENTION: A Method For Extracting Quantitative Information Relating To An H  
; TITLE OF INVENTION: On A Cellular Response  
; FILE REFERENCE: 3759-0110P  
; CURRENT APPLICATION NUMBER: US/09/417,197

; CURRENT FILING DATE: 1999-10-07  
; NUMBER OF SEQ ID NOS: 143  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 138  
; LENGTH: 2184  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: EGFP-PKB fusion  
; NAME/KEY: CDS  
; LOCATION: (1)..(2181)  
US-09-417-197-138

## Query Match 10.6%; Score 252; DB 4; Length 2184;

Best Local Similarity 57.2%; Pred. No. 6.2e-57;  
Matches 519; Conservative 0; Mismatches 380; Indels 9; Gaps 3;

Qy 331 GACTTTTCACTTCTTGAAGTGATCGGAAAGGCGAGTTTTCGAAAGGTTCTTCTAGCAAGA 390  
Db 1186 GAGTTTGAGTACCTGAGCTGTGGGCAAGGCACTTTTCGCAAGGTGATCCTGCTGAAG 1245  
Qy 391 CACAAGCAGAAAGTGTCTATGCAAGTCAAAAGTTTTCAGAAAGCAATCTCTGAAA 450  
Db 1246 GAGAAGGCCACAGCCGCTACTAGCCATGAAGATCCTCAAGAAAGGAAGTCACTGCTGCC 1305  
Qy 451 AAGAAGAGAGAGCAATATTATGTGCGAGCGGAATGTTCTGTTGAAGAATGTGAAGCAC 510  
Db 1306 AAGGACAGGTGGGCCACACACTCACCGA---GAAACCGGCTCTGCAAGACTCCAGGCAC 1362  
Qy 511 CCTTTCTGCTGGGCTCTCACTCTCTTTCAGACTGCTGACAAATTTGACTTTGTCTTA 570  
Db 1363 CCCTTCTCAGCCCTGAGTACTCTTTCAGACCCACAGCCGCTCTGTTTGTCTATG 1422  
Qy 571 GACTACATTAATGTGAGAGTGTCTTACATCTCCAGAGGGAACGCTGCTTCTCTGAA 630  
Db 1423 GAGTACGCCAACCGGGGCGAGCTGTTCTTCACCTGCTCCCGGGAACGTTGTTCTCGAG 1482  
Qy 631 CCAGGGCTGTTTCTATGCTGTGAAATAGCCAGTGCCTTGGGCTACCTGCAATTC---A 687  
Db 1483 GACCGGCGCCGCTTCTATGGGCTGAGATTGTGTACGCCCTGGAGTACCTGCACTCGAG 1542  
Qy 688 CTGAACATCGTTTATAGACTTAAACACAGAGAAATTTTGTAGATTCACAGGACAC 747  
Db 1543 AAGAACGTGTGTACCGGACCTCAAGCTGGAGAACCTCATGCTGGACAGGACGGGCAC 1602  
Qy 748 ATTGCTCTTACTGATTTCGGACTCTGCAAGGAGAAATGAAACAACAAGACAAACATCC 807  
Db 1603 ATTAAGATCAGACTTCGGGCTGTGCAAGAGGGGATCAAGGACGGTGCACCATGAAG 1662  
Qy 808 ACCTTCTGTGGCAGCCGGAGTATCTCGACCTGAGGTGCTTATAGCAGCCCTTATGAC 867  
Db 1663 ACCTTTTGGCGCACACCTGAGTACTTGGCCCCCGAGGTGCTGGAGGCAATGACTACGGC 1722  
Qy 868 AGGACTGTGAGCTGTGTGCTGGGAGCTGTCTTGTATGAGATGCTGTATGGGCTGCGG 927  
Db 1723 CGTCACTGAGTGTGTGGGGCTGGGGTGTGTATGATGAGATGATGTCGGTGTGCGCTG 1782  
Qy 928 CTTTATAGCCGAAACACAGCTGAAATGTACAGCAACATTTCTGAAACAGCCCTCTCCAG 987  
Db 1783 CCTTCTACAAACACAGGACCATGAGAAGCTTTTGTAGCTCATCTCATGGAGGAGATCCGC 1842  
Qy 988 CTGAAACCAATATTACAAATTCGCAAGACACCTCTCGAGGGGCTCTCTGCAAGGAC 1047  
Db 1843 TTCCCGGCGACGCTTGGTCCGAGGCCAAGTCTTGTCTTTTTCAGGGCTGCTCAAGAGGAC 1902  
Qy 1048 AGGACAAAGCGGCT---CGGGGCCAAGGATGACTTCATGAGATTAAGAGTCACTGCTTC 1104  
Db 1903 CCCAAGCAGAGGCTTGGCGGGGCTCCGAGACCCCAAGGAGATCATGAGCATCGCTTC 1962  
Qy 1105 TTCTCTTAATACTGGGATGATCTCATTAATAAGAGATTTACTCCCTTTTAAACCCA 1164  
Db 1963 TTTCCGGGTATCGTGTGGCAGCAGTGTACGAGAGAGGAGCTCAGCCCCACCTTCAAGGCC 2022

QY 1165 AATGTAGTGGCCCAACAGAGCTACGGCACTTTTGACCCCGAGTTTACCGAAGAGCTGTC 1224  
|||  
Db 2023 CAGGTCACTCGGAGACTGACACCGAGTATTGATGAGAGTTACGGCCCGCAGATGATC 2082  
|||  
QY 1225 CCCAACTC 1232  
|||  
Db 2083 ACCATCAC 2090  
|||

## RESULT 8

US-09-212-771-1  
; Sequence 1, Application US/09212771  
; Patent No. 5958773  
; GENERAL INFORMATION:  
; APPLICANT: Brett P. Monia  
; APPLICANT: Lex M. Cowsett  
; TITLE OF INVENTION: ANTISENSE MODULATION OF AKT-1 EXPRESSION  
; FILE REFERENCE: KIS-0034  
; CURRENT APPLICATION NUMBER: US/09/212,771  
; CURRENT FILING DATE: 1998-12-16  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 1  
; LENGTH: 2610  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (199)..(1641)  
US-09-212-771-1

Query Match 10.6%; Score 252; DB 2; Length 2610;  
Best Local Similarity 57.2%; Pred. No. 6.9e-57;  
Matches 519; Conservative 0; Mismatches 380; Indels 9; Gaps 3;  
QY 331 GACTTTCATCTTGAAGTGTATCGAAGGCACTTTGAAAGGCTTCTTAGCAAGA 390  
|||  
Db 643 GAGTTTGAGTACCTGAAGCTGCTGGGCAAGGSCACTTTCCGCAAGGTGATCCTGTGAAG 702  
|||  
QY 391 CACAGGCGAAGAAGTGTCTATGCAAGTCAAGTCTTACAGAAAGCAATCCTGAAA 450  
|||  
Db 703 GAGAGGCCACAGGCCGCTACTACGCCATGAGATCTCAAGAGGAAGTCACTGTGGCC 762  
|||  
QY 451 AAGAAAGGGAAGCAATATTANGTCGAGGCGGAATGTTCTGTGAAGAATGTGAAGCAC 510  
|||  
Db 763 AAGACGAGGTGGCCCAACACTCACCGA---GAACCGCTCCTCGACAATCTCCAGGCAC 819  
|||  
QY 511 CCTTTCCTGGTGGGCTTCACTTCTTTCAGACTGCTGACAAATTTGATCTTGTCTTA 570  
|||  
Db 820 CCTTTCCTCACAGCCCTGAAGTACTCTTTCAGACCCACGCGCTCTGTCTTGTCTATG 879  
|||  
QY 571 GACTACATTAATGTGTGAGAGTGTCTTACCATCTCCAGAGGGAACGCTGCTTCTGAA 630  
|||  
Db 880 GAGTACGCCAACGGGGGCGAGCTGTCTTCCACCTGTCCCGGAACGTTGTCTCCGAG 939  
|||  
QY 631 CCACGGGCTGTTTCTATGCTGCTGAATAGCAAGTGCCTTTGGGCTACTGCAATTC---A 687  
|||  
Db 940 GACCGGGCCGCTTCTATGGGCTGAGATTGTGTCAGCCCTGGACTACTGCACTCGGAG 999  
|||  
QY 688 CTGAACATCGTTTATAGAGACTTAAACACAGAGATATTTTGTAGATTTCAGGGACAC 747  
|||  
Db 1000 AAGAACGTGGTGTACCGGGAACCTCAAGCTGGAGAACCTCATGCTGGACAAGGACGGGCAC 1059  
|||  
QY 748 ATTGTCTTACTGATTTTCGGACTCTGCAAGGAGAACATTTGAACACACAGCACACATCC 807  
|||  
Db 1060 ATTAAGATCACAGACTTCGGGCTGTGCAAGGAGGGATCAAGGCGGTGCCACCATGAG 1119  
|||  
QY 808 ACCTTCTGTGCGACCGCCGAGTATCTCGCACTGAGGTGCTTCAATAGACACCTTATGAC 867  
|||  
Db 1120 ACCTTTTTCGCGCACACCTTGAGTACCTTGGCCCGGAGGTGCTGGAGGACAAATGACTACGGC 1179  
|||  
QY 868 AGGACTGTGGAATGGTGGCTGGAGCTGTCTGTATGATGATGCTGTATGGCTGGCCG 927  
|||

Db 1180 CGTCAGTGGACTGCTGGGGGCTGGCGCTGTGTCTATGTACGAGATGATGTGCGGTGCGCTG 1239  
|||  
QY 928 CCTTTTATAGCCGAAACACAGCTGAATGTACGACCAATCTGTAACAGGCTCTCCAG 987  
|||  
Db 1240 CCTTCTTCAACACGAGCATGAGAAAGCTTTTGTAGCTCATCTCATGAGAGAGATCCGC 1299  
|||  
QY 988 CTGAACCAAAATATTACAAATTTCCGCAAGACACCTCTCTGGAGGGCTCTCTGAGAGGAC 1047  
|||  
Db 1300 TTCCCGCGCACGCTTGTGCTCCGAGGCCAAGTCTTGTCTTTCAGGGCTGCTCAGAGAGAC 1359  
|||  
QY 1048 AGGACAAAGCGGCT---CGGGCCAAAGGATGATCTTCATGAGATTAAGAGTCAATGTCTTC 1104  
|||  
Db 1360 CCCAAGCAGAGGCTTGGCGGGGCTCCGAGGACGCCAAGGAGATCATGCAATCGCTTC 1419  
|||  
QY 1105 TTCTCTTAATTAAGTGGGATGATCTCATTAATAAGAAGATTACTCCCCCTTTAAACCA 1164  
|||  
Db 1420 TTTGCCGTATGCTGTGGCAGCAGCTGTACGAGAAAGAGCTCAGCCCACTTTCAGGCC 1479  
|||  
QY 1165 AATGTAGTGGGCCCAACGAGCTACGGCACTTTGACCCCGAGTTTACCGAAGAGCTGTC 1224  
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Db 1480 CAGGTCACTCGGAGACTGACACCAAGGTATTTTGTAGAGAGTTTCACGGCCAGATGATC 1539  
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QY 1225 CCCAACTC 1232  
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Db 1540 ACCATCAC 1547  
|||

## RESULT 9

US-09-091-058-1  
; Sequence 1, Application US/09091058  
; Patent No. 6054285  
; GENERAL INFORMATION:  
; APPLICANT: Hemmings, Brian A.  
; APPLICANT: Frech, Matthias  
; TITLE OF INVENTION: Screening Method  
; FILE REFERENCE: 4-20683/A/20684/PCT  
; CURRENT APPLICATION NUMBER: US/09/091,058  
; CURRENT FILING DATE: 1998-06-10  
; EARLIER APPLICATION NUMBER: PCT/EP96/04814  
; EARLIER FILING DATE: 1996-11-05  
; EARLIER APPLICATION NUMBER: 9525703.6  
; EARLIER FILING DATE: 1995-12-15  
; NUMBER OF SEQ ID NOS: 23  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 1  
; LENGTH: 2610  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (199)..(1641)  
US-09-091-058-1

Query Match 10.6%; Score 252; DB 3; Length 2610;  
Best Local Similarity 57.2%; Pred. No. 6.9e-57;  
Matches 519; Conservative 0; Mismatches 380; Indels 9; Gaps 3;  
QY 331 GACTTTCATCTTGAAGTGTATCGAAGGCACTTTTGAAGGTTCTTCTAGCAAGA 390  
|||  
Db 643 GAGTTTGAGTACCTGAAGTGTCTGGCAAGGSCACTTTTCGGCAAGGTGATCCTGTGAAG 702  
|||  
QY 391 CACAGGCGAAGAAGTGTCTATGCAAGTCAAGTCTTACAGAAAGCAATCCTGAAA 450  
|||  
Db 703 GAGAGGCCACAGGCCGCTACTACGCATGAGATCTCAAGAGGAAGTCAATGTGGCC 762  
|||  
QY 451 AAGAAAGGAGGAAGCATATTATCTCGAGCGGAATGTTCTGTGAAAGATGTGAAGCAC 510  
|||  
Db 763 AAGACGAGGTGGGCCCAACACTCACCGA---GAACCGGCTCTGCGAAGTCCAGGCAC 819  
|||  
QY 511 CCTTTCCTGGTGGGCTTCACTTCTTTCAGACTGCTGACAAATTTGATCTTGTCTTA 570  
|||  
Db 820 CCTTTCCTCACAGCCCTGAAGTACTCTTTCAGACCCACGCGCTCTGTCTTGTCTATG 879  
|||





QY 988 CTGAACCAAAATATTACAAATTCGCAAGACACCTCTCGAGGGCTCTCGAGAGGAC 1047  
DB 1300 TTCCGGCGCAGCTGTGCTCCGAGGCCAAGTCTTCTGCTTTCAGGGCTCTCAAGAGGAC 1359  
QY 1048 AGGACAAAGCGCT---CGGGCCCAAGATGAGCTTTCATGGAGATTAAGAGTCAATGCTTC 1104  
DB 1360 CCCAAGCAGAGCTTGGGGGGGCTCCGAGAGCGCAAGGAGATCATGAGCATCGCTTC 1419  
QY 1105 TTCTCTTAATTAAGTGGATGATCTCATTAATAGAGATTAATCTCCCTTTTAAACCA 1164  
DB 1420 TTTCGGGTATCGTGTGGAGCAGCTGACGAGAGAGCTCAGCCACCTTCAAGGCC 1479  
QY 1165 AATGTAGTGGGCCCAAGAGCTACGCACTTTGACCCCGAGTTTACCGAAGAGCTGTC 1224  
DB 1480 CAGGTCACTCGGAGACTGACACAGGATTTTGTATGAGGAGTTACGGCCAGATGATC 1539  
QY 1225 CCCAACTC 1232  
DB 1540 ACCATCAC 1547

## RESULT 11

US-09-023-655-1361  
; Sequence 1361, Application US/09023655  
; Patent No. 6607879  
; GENERAL INFORMATION:  
; APPLICANT: Cocks, Benjamin G.  
; APPLICANT: Susan G. Stuart  
; APPLICANT: Jeffrey J. Sellhammer  
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF BLOOD CELL GENE  
; NUMBER OF SEQUENCES: 1508  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.  
; STREET: 3174 PORTER DRIVE  
; CITY: PALO ALTO  
; STATE: CALIFORNIA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/023,655  
; FILING DATE: HEREWITH

## CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER:

FILING DATE:

CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:

NAME: Zeller, Karen J.

REGISTRATION NUMBER: 37,071

REFERENCE/DOCKET NUMBER: PA-0001 US

TELECOMMUNICATION INFORMATION:

TELEPHONE: (650) 855-0555

TELEFAX: (650) 845-4166

INFORMATION FOR SEQ ID NO: 1361:

SEQUENCE CHARACTERISTICS:

LENGTH: 3321 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

IMMEDIATE SOURCE:

LIBRARY: GENBANK

CLONE: G35492

US-09-023-655-1361

Query Match 10.6%; Score 250.6; DB 4; Length 3321;

Best Local Similarity 56.4%; Pred. No. 1.8e-56;

Matches 488; Conservative 0; Mismatches 374; Indels 3; Gaps 1;

QY 322 AAAACATCTGACTTTTCACTTCTTGAAGAGTATCGAARAGGCGAGTTTGGAAAGGTTCTT 381  
DB 1148 AAATCTGACCGGATTTTAACTTCTTAATGTTGTTGGGAAAGCGAGCTTTTGGCAAGTCTATG 1207  
QY 382 CTAGCAAGACACAAGGCGAAGAAAGTGTCTATGCAAGTCAAAAGTTTATACAGAAAGAAAGCA 441  
DB 1208 CTTTCAGAACGAAAGGCGACAGATGAGCTCTATGCTGTGAAGATCTCTGAAGAGGACGTT 1267  
QY 442 ATCTGAAAAAGAAAGAGGAGAGCAATATATGTGGAGCGGAATTTCTGTGTGAAGAT 501  
DB 1268 GTGATCCAAGATGATGACGTGGAGTGCACTATGTGGAGAGCGGGTGTGGCCCTGCT 1327  
QY 502 GTGAAGCACCTTTCTGTTGGTGGGCTTCACTTCTTTCAGAGTCTGTCGACAAATGTGAC 561  
DB 1328 GGGAAAGCGCCCTTCTGACCCAGCTCCACTCTGCTTCCAGACCAATGACCGCGCTGTGAC 1387  
QY 562 TTTGTCTTAGACTACATTAATGTGGAGAGTGTCTACCATCTCCAGAGGAAACGCTGC 621  
DB 1388 TTTGTGATGGAGTACGTGAATGGGGGCGACCTCATGTATCATATCCAGCAAGTCCGCGG 1447  
QY 622 TTCTTGGAACCAAGGCTCTGTTTCTATGCTCTGCTGAAATPAGCCAGTGCCTTGGGCTACCTG 681  
DB 1448 TTCAAGGAGCCCATGCTGTATTTTACGCTGCAGAAATGCGATCGGTCTGTCTTCTTCTTA 1507  
QY 682 CAITTCAGTGAACATCGTTTATAGAGACTTAAACCAAGAGATATTTTCTGATGATTCACAG 741  
DB 1508 CAGAGTAAGGCGCATTTACCGTGACCTAAACCTTGACACGCTGATGCTGATTTCTGAG 1567  
QY 742 GGACACATTTGCTTACTGATTTCCGACTCTGCAAGGAGAAACATTTGAACACACAGCACA 801  
DB 1568 GGACACATCAAGATTTGCGGATTTTGGCATGTGTAAAGGAAACATCTGGGATGGGGTGACA 1627  
QY 802 ACATCCACCTTTCTGTGGCAAGCCCGAGATATCTGCACTGAGGTGCTTTTCATAAGCAGCT 861  
DB 1628 ACCAAGACATTTCTGTGGCACTCCAGACTACATCGCCCGAGAGATAATGCTTATCAGGCC 1687  
QY 862 TATGACAGGACTGTGAGTGTGCTGCTGGAGCTGTCTGTATGATGATGCTGTATGCG 921  
DB 1688 TATGGGAGTCCGTGGATTTGGTGGCATTTTGAATCTCTGTGTATGAATTTGGCTGGG 1747  
QY 922 CTGCGGCTTTTATAGCCGAAACACAGCTGAAATGTACGACACATTTCTGAAACAGGCT 981  
DB 1748 CAGGACCTTTTGAAGGGGAGATGAAGTAACTCTTCCATCAATCATGACACACAC 1807  
QY 982 CTCAGCTGAAACCAAAATATTACAAATTCGCAAGACACCTCTCTGGAGGGCTCTCTGAG 1041  
DB 1808 GTAGCCTATCCCAAGTCTATGTCCAGGAAGCTGTGGCCATCTGCAAGGGCTGATGACC 1867  
QY 1042 AAGGACAGGACAAAGCGCTCG---GGGCCAAGGATGACITTCATGGAGATTAAGAGTCAT 1098  
DB 1868 AAACACCCAGGCAAAAGCTGTGGTGTGGACCTGAGCGCAACCTGATATCAAGAGCAT 1927  
QY 1099 GTCTTCTCTCTTAATTAATCTGGGATGATCTCATTAATAAGAAAGATTTACTCCCTCTTT 1158  
DB 1928 GCATTTTCCGGTATATTGATTGGGAGAACTTGAACGCAAGAGATCCAGCCCTCTAT 1987  
QY 1159 AACCAAAATGTAGTGGGCCCAAGC 1183  
DB 1988 AAGCAAAAAGCTTGTGGGCGAAATG 2012

## RESULT 12

US-09-256-465-1  
; Sequence 1, Application US/09256465  
; Patent No. 6043090  
; GENERAL INFORMATION:  
; APPLICANT: Brett P. Monia  
; APPLICANT: Lex M. Cowser  
; TITLE OF INVENTION: ANTISENSE MODULATION OF AKT-2 EXPRESSION  
; FILE REFERENCE: RFS-0035  
; CURRENT APPLICATION NUMBER: US/09/256,465  
; CURRENT FILING DATE: 1999-02-23

; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 1  
; LENGTH: 1599  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (88)..(1533)  
US-09-256-465-1

Query Match 10.3%; Score 245.2; DB 3; Length 1599;  
Best Local Similarity 55.5%; Pred. No. 3.4e-55;  
Matches 516; Conservative 0; Mismatches 408; Indels 6; Gaps 2;

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QY 330 TGAATTTTCACTTTTGAAGTATCGAAGGGCAGTTTGGAAAGTCTTTCTAGCAAG 389
DB 537 TGACTTTCGACTATCTCAAACTCTTGGCAAGGAACTTTGGCAAGTCTCTGGTGG 596
QY 390 ACACAAGGCGAAGAGTGTCTATGCACTCAAGTCTTACAGAAAGAACTCTTGAA 449
DB 597 GGAGAGGCCACTGGCGCTACTAGCCATGAAGTCTCGAAGGAAGTCTCATTCG 656
QY 450 AAAGAAGAGGAGAGCATATATGTCGAGCGGAATGTTCTGTGAAGATGTAAGCA 509
DB 657 CAAGGATGAAGTCTGCTACACAGTCAAGTCTTCCAGAACACCC---AGGCA 713
QY 510 CCCTTTCTGGTGGCGCTTCACTTCTCTTTCCAGACTGCTGACAAATGTAATTCCT 569
DB 714 CCGGTTCTCACTCGGCTGAAGTATGCTTCCAGACCCACGACCGCTGTGCTTTGAT 773
QY 570 AGACTACATTAATGGTGGAGAGTGTCTTACCATCTCCAGAGGGAAGCTCTTCTGGA 629
DB 774 GGAGTATGCCAACGGGGTGAGCTGTCTTCCACTGTCCGGAGGCTGTCTTCAGA 833
QY 630 ACCACGGGCTCGTTTCTATGCTGTGAAATAGCCAGTGCCTTGGGCTACCTGCAATCACT 689
DB 834 GGAGCGGGCGCGTTTATGGTGCAGAGATGTCTCGGCTCTTGAAGTCTGCACTCGCG 893
QY 690 GAACTGTTTATAGACTTTAAACAGAGAAATATTTTGTAGATTCACAGGACACAT 749
DB 894 GGACGTGGTATACCGGACATCAAGCTGGAAACCTCATGTGCAACAAAGATGGCCACAT 953
QY 750 TGCTCTTACTGATTTGGACTCTCAAGAGGAACATTTGAACACACAGCAACATCCAC 809
DB 954 CAAGATCACTGACTTTGGCTCTCAAGAGGGCATCAGTGACGGGGCCACCATGAAGAC 1013
QY 810 CTCTGTGGCAGCGCGGAGTATCTCGACCTGAGTGTCTTATGAAGAGCCTTATGACAG 869
DB 1014 CTCTGTGGGACCGCGAGTACCTGGCGCTGAGGTGCTGGAGGACATGACTATGGCG 1073
QY 870 GACTGTGAGTGTGGTGGCTGGAGCTGTCTTGTATGAGATGCTGTATGGCTGGCGCC 929
DB 1074 GGCGGTGAGTGTGGGGCTGGGTGTGGTCACTACGAGATGATGTGGCGCGCCCTGCC 1133
QY 930 TTTTATAGCGGAACACAGCTGAAATGTACGACAACTTCTGAACAGGCTCTCCAGCT 989
DB 1134 CTCTTCAACACAGACACAGAGCGCTCTTCGAGCTATCTCTATGAGAGATCCGCTT 1193
QY 990 GAAACCAAAATTAATAATTCGCAAGACACTCTCTGGAGGCGCTCTTCGCAAGAGGACAG 1049
DB 1194 CCGCGCAGCGCTAGCCCCGAGGCCAAGTCCCTGTCTGGCTGTCTTAAAGAGGACCC 1253
QY 1050 GACAAAGCGGT---CGGGGCCAAGGATGACTTCTATGAGATTAAGATCATGTCTTCTT 1106
DB 1254 CAAGCAGAGGCTTGGTGGGGGGCCCGACGATGCCAAGAGGAGTCTATGGAGCACAGGTTCTT 1313
QY 1107 CTCTTATTAATGAGGATGATCTCATTAATAAGAGATTAATCTCCCTTTTAAACCAAA 1166
DB 1314 CTTGAGTATCACTGGCAGGAGCTGGTCCAGAGAGAGTCTCTGCCACCTTTCAAACTCA 1373
QY 1167 TGTGAGTGGGCGCCACAGAGTACGCACTTTTGAACCCGAGTTTACCGAAGAGCCTGTCCC 1226
DB 1374 GGTCACTCCGAGGTCGACACAGGATCTTCTGATGAATTTTACCGCCGAGTCCATCAC 1433
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QY 1227 CAACTCCATTGGCAAGTCCCTTGACAGCGT 1256
DB 1434 AATCACACCCCTGACCGGTATGACAGCGT 1463
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## RESULT 13

US-09-167-322-3

; Sequence 3, Application US/09167322  
; Patent No. 6365151  
; GENERAL INFORMATION:  
; APPLICANT: Allegheny University of the Health  
; Sciences, Halpern, Michael S.  
; England, James M.  
; TITLE OF INVENTION: CANCER VACCINE  
; NUMBER OF SEQUENCES: 14  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Seidel, Gonda, Lavorna & Monaco, P.C.  
; STREET: Suite 1800, Two Penn Center Plaza  
; CITY: Philadelphia  
; STATE: PA  
; COUNTRY: USA  
; ZIP: 19102

; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/167,322  
; FILING DATE: 07-Oct-1998  
; CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/US97/00582

FILING DATE: &lt;Unknown&gt;

ATTORNEY/AGENT INFORMATION:

NAME: Monaco, Daniel A.

REGISTRATION NUMBER: 30,480

REFERENCE/DOCKET NUMBER: 7933-33 PC

TELECOMMUNICATION INFORMATION:

TELEPHONE: (215) 568-8383

TELEFAX: (215) 568-5549

INFORMATION FOR SEQ ID NO: 3:

SEQUENCE CHARACTERISTICS:

LENGTH: 1599 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

SEQUENCE DESCRIPTION: SEQ ID NO: 3:

US-09-167-322-3

Query Match 10.3%; Score 245.2; DB 4; Length 1599;

Best Local Similarity 55.5%; Pred. No. 3.4e-55;

Matches 516; Conservative 0; Mismatches 408; Indels 6; Gaps 2;

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QY 330 TGAATTTTCACTTTTGAAGTATCGAAGGGCAGTTTGGAAAGTCTTTCTAGCAAG 389
DB 537 TGACTTTCGACTATCTCAAACTCTTGGCAAGGAACTTTGGCAAGTCTCTGGTGG 596
QY 390 ACACAAGGCGAAGAGTGTCTATGCACTCAAGTCTTACAGAAAGAACTCTTGAA 449
DB 597 GGAGAGGCCACTGGCGCTACTAGCCATGAAGTCTTCCAGAACACCC---AGGCA 656
QY 450 AAAGAAGAGGAGAGCATATATGTCGAGCGGAATGTTCTGTGAAGATGTAAGCA 509
DB 657 CAAGGATGAAGTCTGCTACACAGTCAAGTCTTCCAGAACACCC---AGGCA 713
QY 510 CCCTTTCTGGTGGCGCTTCACTTCTCTTTCCAGACTGCTGACAAATGTAATTCCT 569
DB 714 CCGGTTCTCACTCGGCTGAAGTATGCTTCCAGACCCACGACCGCTGTGCTTTGAT 773
QY 570 AGACTACATTAATGGTGGAGAGTGTCTTACCATCTCCAGAGGGAAGCTCTTCTGGA 629
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Db 774 GGAGTATGCCAACGGGGGAGCTGTCTTCACCTGTCCCGGAGCGGTCTTCACAGA 833
QY 630 ACCACGGGCTCTTTCTATGCTGAATAGCCAGTGTCTGGGCTACCTGCATTCAT 689
Db 834 GGAGCGGGCCGGTTTTATGTCGAGATTGTCTCGGCTCTTGAGTCTTGCACTCGG 893
QY 690 GAACATCGTTTATAGACTTTAAACCCAGAGAAATATTTTGTAGATTCACAGGACACAT 749
Db 894 GGACGTGGTATACCGGACATCAAGCTGGAAACCTCATGCTGGACAAAGATGGCCACAT 953
QY 750 TGTCTTACTGATTTGGACTCTGCAAGAGAAATTTGAACACACAGACAAATCCAC 809
Db 954 CAAGATCACTGACTTTGGCTCTGCAAGAGGACATCAAGTACGGGGCCACCATGAAAC 1013
QY 810 CTTCTGTGGACCGCGGAGTATCTCGACCTCAGGTGTCTTCAAGACGCTTATGACAG 869
Db 1014 CTTCTGTGGACCGCGGAGTATCTCGACCTCAGGTGTCTTCAAGACGCTTATGACAG 1073
QY 870 GACTGTGACTGTGTGGCTCTGGAGCTGTCTTGTATGAGATGTCTGTATGGCTCCGCC 929
Db 1074 GCGCGTGGACTGTGTGGGCTGTGGTGTGTCTCATGTACGAGATGTGTGGCGCGCTGCC 1133
QY 930 TTTTATAGCGGAACACAGCTGAATGTACGACAACTTGAACAGCCCTTCCAGCT 989
Db 1134 CTTCTACACCGAGGACCAAGCGCTCTTCGAGCTCATCTCATGGAAGATCCGCTT 1193
QY 990 GAAACCAATATTACAAATTCGCAAGACACCTCTCGAGGCGCTCTCGAGAGGACAG 1049
Db 1194 CCGCGGACGCTCAGCCCGGAGCCAGTCTCTGTCTGTGGCTGTCTTAAGAGACCC 1253
QY 1050 GACAAAGCGGT---CGGGGCCAAGGATGACTTCATGAGATTAAGATCATGTCTTCT 1106
Db 1254 CAAGCAGAGGCTTGGTGGGGGGCCAGCGATGCCAAGGAGTCTATGGAGCAGCTTCT 1313
QY 1107 CTCCTTAATTAACCTGGATGATCTCATTAAGAAGATTTACTCCCGCTTTTAAACCCAA 1166
Db 1314 CTTGAGTCACTGCGGAGGCTGTGTCCAGAGAGCTCTCGCAGAGGCTCTTCAACCTCA 1373
QY 1167 TGTAGTGGGCGCAACGAGCTACGGCACTTTGACCGCGAGTTTACCGAAGAGCTGTGCC 1226
Db 1374 GGTACGTCGAGGTCGACACAGGTATCTTGATGATGAATTTACCGCCAGTCCATC 1433
QY 1227 CAATCCATTTGGAGTCCCTGACAGGCT 1256
Db 1434 AATCACACCCCTGACCGCTATGACAGCT 1463
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## RESULT 14

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US-09-023-655-1004
; Sequence 1004, Application US/09023655
; Patent No. 6607879
; GENERAL INFORMATION:
; APPLICANT: Cocks, Benjamin G.
; APPLICANT: Susan G. Stuart
; APPLICANT: Jeffrey J. Seilhamer
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF BLOOD CELL GENE
; NUMBER OF SEQUENCES: 1508
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 PORTER DRIVE
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/023,655
; FILING DATE: HERewith
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; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Zeller, Karen J.
; REGISTRATION NUMBER: 37,071
; REFERENCE/DOCKET NUMBER: PA-0001 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (650) 855-0555
; TELEFAX: (650) 845-4166
; INFORMATION FOR SEQ ID NO: 1004:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1599 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GENBANK
; CLONE: g178325
; US-09-023-655-1004

Query Match 10.3%; Score 245.2; DB 4; Length 1599;
Best Local Similarity 55.5%; Pred. No. 3.4e-55;
Matches 516; Conservative 0; Mismatches 408; Indels 6; Gaps 2;

QY 330 TGACTTTCATCTTTGAAAGTATCGGAAAGCGGAGTTTGGAAAGTTCCTTAGCAAG 389
Db 537 TGACTTCGATATCTCAAACTCTTGGCAAGGAACTTTGGCAAAAGTCATCTGGTGG 596
QY 390 ACACAGGCGACAGAAGTGTCTATGCAAGTCAAGATTTTACAGAAAGCAATCTGAA 449
Db 597 GGAGAGGCGCACTGGCCCTACTACGCATGAATCTCGGAAAGGAAGTCATCATTTGC 656
QY 450 AAAGAAAGAGAGAGACATATTATGTCGAGCGGAATTTCTGTGAAGAATGTGAACA 509
Db 657 CAAGATGAAGTCGCTCACAGTCACGAGAGCGGGTCTCCAGAACACCC--AGGCA 713
QY 510 CCGTTTCTGTGGGCTTCACTCTCTTTCACAGTCTGCTGACAAATTTGATTTGCTCT 569
Db 714 CCGCTTCTCACTCGCTGGAAGTATGCTTCAGACCCACGACCGCTGTGCTTTGTAT 773
QY 570 AGACTACATTAATGTCGAGAGTGTCTTACCATCTCCAGAGGAGGAGCTGCTTCTGA 629
Db 774 GGAGTATGCCAACGGGGTGTGTTCTTCCACTGTCCCGGAGCGGTCTTCACAGA 833
QY 630 ACCACGGGCTGTTTCTATGCTGCTGAAATAGCCAGTGCCTTGGGCTACCTGCATTCAT 689
Db 834 GGAGCGGGCCGGTTTTATGTCGAGAGATTGTCTCGGCTCTTGAGTACTTGCATCCG 893
QY 690 GAACATCGTTTATAGACTTTAAACCCAGAGAAATTTTGTAGATTCACAGGAGACAT 749
Db 894 GGACGTGGTATACCGGACATCAAGCTGGAAACCTCATGCTGGACAAAGATGGCCACAT 953
QY 750 TGTCTTACTGATTTGGACTCTGCAAGGAGAACTTGAACACACAGCAGCAACATCCAC 809
Db 954 CAAGATCACTGACTTTGGCTCTGCAAGAGGCGCATCAGTACGGGGCCACCATGAAAC 1013
QY 810 CTTCTGTGGACCGCGGAGTATCTCGACCTCAGGTGTCTTCAAGACGCTTATGACAG 869
Db 1014 CTTCTGTGGACCGCGGAGTATCTCGGCGCTCGAGTCTGGAGGACATGACTATGGCG 1073
QY 870 GACTGTGACTGTGTGGCTCTGGAGCTGTCTTGTATGAGATGTCTGTATGGCTCCGCC 929
Db 1074 GCGCGTGGACTGTGTGGGCTGTGGTGTGTGTATGTACGAGATGTGTGCGCGCGCTGCC 1133
QY 930 TTTTATAGCGGAACACAGCTGAATGTACGACAACTTGAACAGCCCTTCCAGCT 989
Db 1134 CTTCTACACCGAGGACCAAGCGCTCTTCGAGCTCATCTCATGGAAGATTCGCTT 1193
QY 990 GAAACCAATATTACAAATTCGCAAGACACCTCTCGAGGCGCTCTCGAGAGGACAG 1049
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Db 1194 CCCGCGCAGCTCAGCCCGAGGCCAAGTCCCTGCTGTGGTGTCTTAAGAAGACCC 1253  
QY 1050 GACAAAGCGGCT---CGGGCCAAAGATGACTTTCATGGAGATTAAGAGTCATGTTCTT 1106  
Db 1254 CAAGCAGAGGCTTGTGTGGGGGCCCCAGCGATGCCAAGGAGGTCATGGAGCACAGGTTCTT 1313  
QY 1107 CTCCTTAATTAACTGGGATGATCTCATTAAATAAGAGATTAAGTCCCTCTTTTAAACCCAAA 1166  
Db 1314 CCTCAGCATCAACTGGCAGGAGTGGTCCAGAGAGAGCTCTCCGCCACCTTCAAACTCA 1373  
QY 1167 TGTGAGTGGGCCCAACGAGCTACGGCACTTTGACCCCGAGTTTACGAGAGCCTGTCCC 1226  
Db 1374 GGTCAAGTCCGAGGTCGACACAAGGTACTTTCGATGATGAATTTACGCCCCAGTCCATCAC 1433  
QY 1227 CAACTCCATTGGCAAGTCCCTGACAGGCT 1256  
Db 1434 AATCACACCCCTGACCGCTATGACAGGCT 1463

RESULT 15

US-09-225-749-24  
; Sequence 24, Application US/09225749  
; Patent No. 6300320  
; GENERAL INFORMATION:  
; APPLICANT: Dean, Nicholas M.  
; APPLICANT: McKay, Robert, A.  
; TITLE OF INVENTION: Modulation of c-jun using inhibitors of protein kinase C  
; FILE REFERENCE: ISIS3313  
; CURRENT APPLICATION NUMBER: US/09/225,749  
; CURRENT FILING DATE: 1999-01-05  
; NUMBER OF SEQ ID NOS: 24  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 24  
; LENGTH: 2245  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (28)..(2046)  
; PUBLICATION INFORMATION:  
; JOURNAL: Nucleic Acids Res.  
; VOLUME: 18  
; ISSUE: 8  
; PAGES: 2183  
; DATE: 1990-04-25  
; DATABASE ACCESSION NUMBER: X52479/Genbank  
; DATABASE ENTRY DATE: 1993-09-12  
US-09-225-749-24

Query Match 10.1%; Score 239.4; DB 4; Length 2245;  
Best Local Similarity 54.8%; Pred.No.1.4e-53;  
Matches 496; Conservative 0; Mismatches 406; Indels 3; Gaps 1;

QY 274 AGTCCTCTCAGCAATCAACCTTGGCCCGTGTCCCAATCTCTCATGCTAAACCATCTGAC 333  
Db 982 AGTCCCTCTGAAGACAGGAAACAACCTTCCAACACCTTGACCGAGTGAACCTCAGGAC 1041  
QY 334 TTTCACTTCTTGAAGTGAAGGCGAGTTTGGAAAGGTTTCTTAGCAAGACAC 393  
Db 1042 TTCAATTTCTCTATGTTGGGAAAGGGAGTTTGGAAAGGTTGATGCTTGGCCACAGG 1101  
QY 394 AAGGCAGAGAGTGTCTTATGCGAGTCAAGTTTACAGAGAGAGCAATCTTGAAAGAG 453  
Db 1102 AAGGCCACAGAGAACTGATGCAATCAAAATCTGAAAGAGGATGTGGTGAATCAGGAT 1161  
QY 454 AAAGAGGAGAGCATATTATGTCGGAGCGGAATGTTCTGTTGAAGAAATGTAAGCACCT 513  
Db 1162 GATGAGTGGAGTGACCATGGTAGAAGCGAGTCTTGGCCCTGCTTGACAAACCCCG 1221  
QY 514 TTCCTGGTGGGCTTTCATCTCTTTCCAGACTGCTGACAAATGTACTTTGTCTTAGAC 573  
Db 1222 TTCCTGAGCGAGTCACTCTCTCTCCAGACAGTGGATCGGCTGTACTTCTGTCATGGA 1281

QY 574 TACATTAATGTTGGAGAGTTGTTCTTACCATCTCCAGAGGAGACGCTGCTTCTCTGGAACA 633  
Db 1282 TATGTCAACGGTGGGACCTCATGTACCACATTCAGCAAGTAGGAAAATTTAAGGAACA 1341  
QY 634 CGGGCTCGTTTCTATGTGCTGAATAGCCAGTGCCTTTGGGCTACCTGCAATTCACCTGAAC 693  
Db 1342 CAAGCAGTATTTCTATGCGGCGAGAGATTTCCATCGGATTTCTTCTTCAATAAGAGGA 1401  
QY 694 ATCGTTTATAGAGACTTAAACCAGAGAAATATTTTGTAGATTCACAGGACACATTTGTC 753  
Db 1402 ATCATTTATAGGGATCTGAAGTTAGATAACGTCATGTGGATTCAGAAAGGACATATCAA 1461  
QY 754 CTTACTGATTTCCGACTCTGCAAGGAGAACATTGAAACAACAAGACACATCCACCTTC 813  
Db 1462 ANTGCTGACTTTGGGATGTCAAGGAAACACATGATGGATGGAGTCAACGACGAGGACCTTC 1521  
QY 814 TGTGCACGCGGAGTATCTCGCACCTGAGGTGCTTTCATAAGCAGCCTTATGACAGGACT 873  
Db 1522 TGTGGACTCCAGATTATATGCCCCAGAGATAATCGCTTATCAGCCGTATGGAAATCT 1581  
QY 874 GTGACTGTTGCTGGGAGCTGTCTTGTATGAGATGCTGTATGGCTGCGGCTTTCCTTT 933  
Db 1582 GTGACTGTTGCTGGGCTATGCGCTCCTGTGTATGAAATGCTTGCAGGCGAGCTTCAAT 1641  
QY 934 TATAGCCGAAACACAGCTGAAATGTACGACAACTTCTGAACAAGCCTCTCCAGCTGAAA 993  
Db 1642 GATGTGAAGATGAAGACGACTATTTCACTCATATGAGAGCAACAGTTTCTTATCCA 1701  
QY 994 CCAATATTAACAAATTTCCGCAAGACACCTCTCGAGGGGCTTCTCGAAGAGGACAGGACA 1053  
Db 1702 AAATCCTTGTCCAAGGAGGCTGTTTCTATCTGCAAGGACTGATGACCAACACCCAGCC 1761  
QY 1054 AAGCGGCT---CGGGCCCAAGATGACTTTCATGAGATTAAGAGTATGTTCTTCTTC 1110  
Db 1762 AAGCGGCTGGGCTGTGGGCTTGAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1821  
QY 1111 TTAATTAACGAGTATCTCATTAATAAGAGAGATTACTCCCTTTTAAACCAATGTG 1170  
Db 1822 AGGATCGACTGGGAAAAAACTGGAGAACAGGAGATCCAGCCACCATTCAGGCCCAAGGTG 1881  
QY 1171 AGTGG 1175  
Db 1882 TGTGG 1886

Search completed: September 18, 2004, 20:50:05  
Job time : 185 secs

Blank sheet